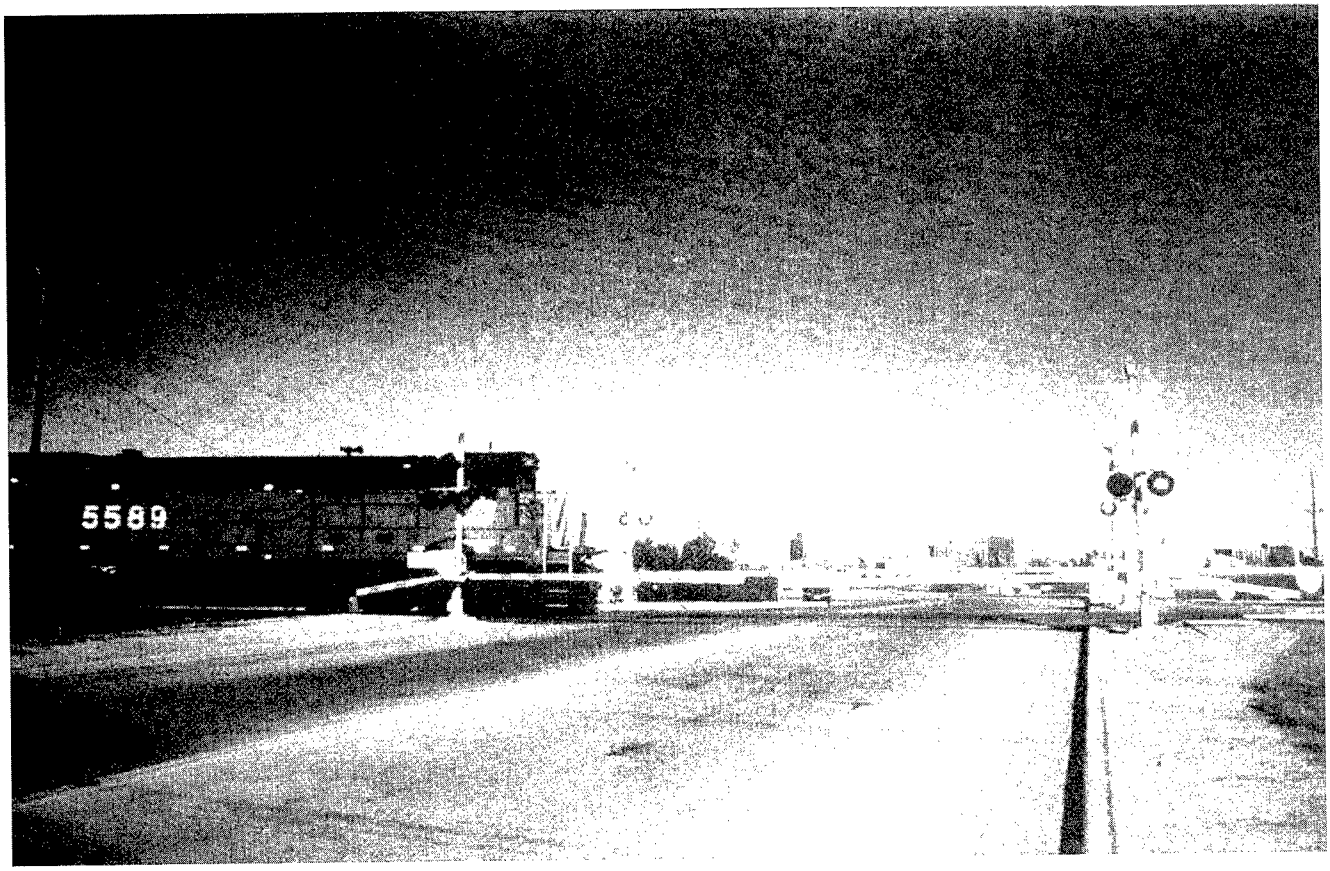
HIGHWAY-RAIL CROSSING ACCIDENT/INCIDENT AND INVENTORY BULLETIN

U. S. Department
of Transportation
Federal Railroad
Administration

NO. 18

September 1996

CALENDAR YEAR 1995



always expect a train

NOTICE

Federal Railroad Administration
Office of Safety, RRS-22
400 Seventh Street, S.W.
Washington, D.C. 20590

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LIST OF ABBREVIATIONS

ACC/INC	-	**Accident/Incident**
A/I	-	**Accident/Incident**
CONT	-	**Contractor Employee**
ENOD	-	**Employee Not On Duty**
EOD	-	**Employee On Duty**
FA	-	**Federal Aid**
HWY	-	**Highway**
INJ	-	**Injury or Casualty**
K	-	**Thousands**
KLD	-	**Killed**
LOCO(S)	-	**Locomotive**
MUTCD	-	**Manual on Uniform Traffic Control Devices**
MV	-	**Motor Vehicle**
NONT	-	**Non-Trespasser**
PSGR	-	**Passenger**
SIG	-	**Signal**
TRES	-	**Trespasser**
VEH REG	-	**Vehicles Registered**

INTRODUCTION

The eighteenth annual report, issued by the Federal Railroad Administration (FRA) Office of Safety, combines Highway-Rail Crossing Accident/Incident statistics with the National Highway-Rail Crossing Inventory. Accident/Incident data is compiled from monthly reports filed by railroads. The National Highway-Rail Crossing Inventory contains sight-survey data about individual crossings and is provided voluntarily by states and railroads.

The Federal Railroad Safety Act of 1970 (P.L. 91-458) and the Accident Reports Act (45 U.S.C. 38-34) require railroads to file accident/incident reports with the FRA. The National Highway-Rail Crossing Inventory was developed in response to the Federal Railroad Safety Act of 1970 and the Federal Highway Safety Acts of 1970 and 1973, which require the Secretary of Transportation to work towards improving safety at highway-rail crossings.

* * * * * * *

Tables and figures retain the number identification used in prior years. Information on accidents/incidents and crossings is presented in the following sequence:

Historical data on highway-rail crossings accidents/incidents at public crossings.

Summary of 1995 accidents/incidents that occurred at public crossings sites.

Physical and operational statistics for all public at-grade highway-rail crossings as described in the inventory on July 19, 1996.

Summary of 1995 accidents/incidents occurring at private highway-rail crossings and tabulations of private crossings in the inventory.

The tables and figures in Sections 1,2,3,5, and Appendix C furnish data on public highway-rail crossings; although tables 33 and 34 in Section 4 include counts of the number of private crossings. The majority of the accident tables and charts shown in this bulletin provide information on motor vehicle accidents. Those tables and figures that do not refer to motor vehicle in their title contain data for all accidents/incidents.

1992/3 ACCIDENT PREDICTION AND RESOURCE ALLOCATION PROCEDURE CONSTANTS

The U.S. DOT Highway-Rail Crossing Resource Allocation Procedure, described in the Rail-Highway Crossing Resource Allocation Procedure User's Guide, Third Edition, DOT/FRA/OS-87/10, August 1987, uses three "normalizing constants" in the accident prediction formulas, Formula A, Section 3.2.4, Page 17. These constants have been adjusted periodically in order to keep the formulas matched with current accident trends. The last readjustment was made for Calendar Year 1992 and was published in Bulletin No. 14.

The process of determining the three (3) current normalizing constants for 1992 was performed so that the sum of the December 1991, predictions using only accident history data for Calendar Years 1986 to 1990 for the top 20 percent of each of the three classes of crossings (gates, flashing lights, passive) for the respective three formulas is made equal to the actual number of accidents that occurred for those same crossings in 1991. This process was performed for each of the three warning device groups, (1) passive, (2) flashing lights, and (3) gates.

These constants were redetermined for the "national" model using the crossings in the inventory as of December 31, 1991. Organizations using the "DOT Model" should update their models by replacing the old constants with the recalculated constants. The constants referenced here are located in the computer program ACPD.NEW as shown in the coding at the top of page A-4, Appendix A1 of the User's Guide Third Edition and in RESAL.NEW on page B-3, Appendix B1.

These constants will be used in fulfilling requests for accident prediction and resource allocation procedure listings. The table below lists the current and prior constants.

ACCIDENT PREDICTION AND RESOURCE ALLOCATION PROCEDURE NORMALIZING CONSTANTS

WARNING DEVICE GROUPS		CURRENT 1992	PRIOR YEARS 1990	1988	1986
(1)	Passive	.8239	.9417	.8778	.8644
(2)	Flashing Lights	.6935	.8345	.8013	.8887
(3)	Gates	.6714	.8901	.8911	.8131

The Resource Allocation Procedure is currently being reviewed and, if merited, may be revised. (This project is one of 55 actions identified within the Department of Transportation's recently released Highway-Rail Crossing Safety Action Plan.) As such, recalculation of the "normalizing constants" for the existing accident prediction formulas has been deferred until this review is complete. Users of the "DOT Model" should continue to use the 1992 constants detailed above.

TABLE-S. SUMMARY OF HIGHWAY-RAIL CROSSING ACCIDENT STATISTICS FOR THE NATION

YEAR	TOTAL ACCI	TOTAL FATAL	TOTAL INJ	MOTOR VEHICLE ACCI	MOTOR VEHICLE FATAL	MOTOR VEHICLE INJ	NON-MOTOR VEHICLES ACCI	NON-MOTOR VEHICLES FATAL	NON-MOTOR VEHICLES INJ
1990									
PUBLIC	5,233	648	2,254	5,022	568	2,186	211	80	68
PRIVATE	480	50	153	458	46	146	22	4	7
TOTAL	5,713	698	2,407	5,480	614	2,332	233	84	75
1991									
PUBLIC	4,861	565	1,923	4,677	497	1,866	184	68	57
PRIVATE	525	43	171	495	38	163	30	5	8
TOTAL	5,386	608	2,094	5,172	535	2,029	214	73	65
1992									
PUBLIC	4,465	536	1,830	4,269	466	1,752	196	70	78
PRIVATE	445	43	145	415	40	139	30	3	6
TOTAL	4,910	579	1,975	4,684	506	1,891	226	73	84
1993									
PUBLIC	4,437	584	1,744	4,240	517	1,677	197	67	67
PRIVATE	455	42	93	421	37	83	34	5	10
TOTAL	4,892	626	1,837	4,661	554	1,760	231	72	77
1994									
PUBLIC	4,503	572	1,829	4,296	501	1,764	207	71	65
PRIVATE	476	43	132	450	41	121	26	2	11
TOTAL	4,979	615	1,961	4,746	542	1,885	233	73	76
1995									
PUBLIC	4,153	524	1,754	3,972	455	1,696	181	69	58
PRIVATE	480	55	140	444	53	129	36	2	11
TOTAL	4,633	579	1,894	4,416	508	1,825	217	71	69

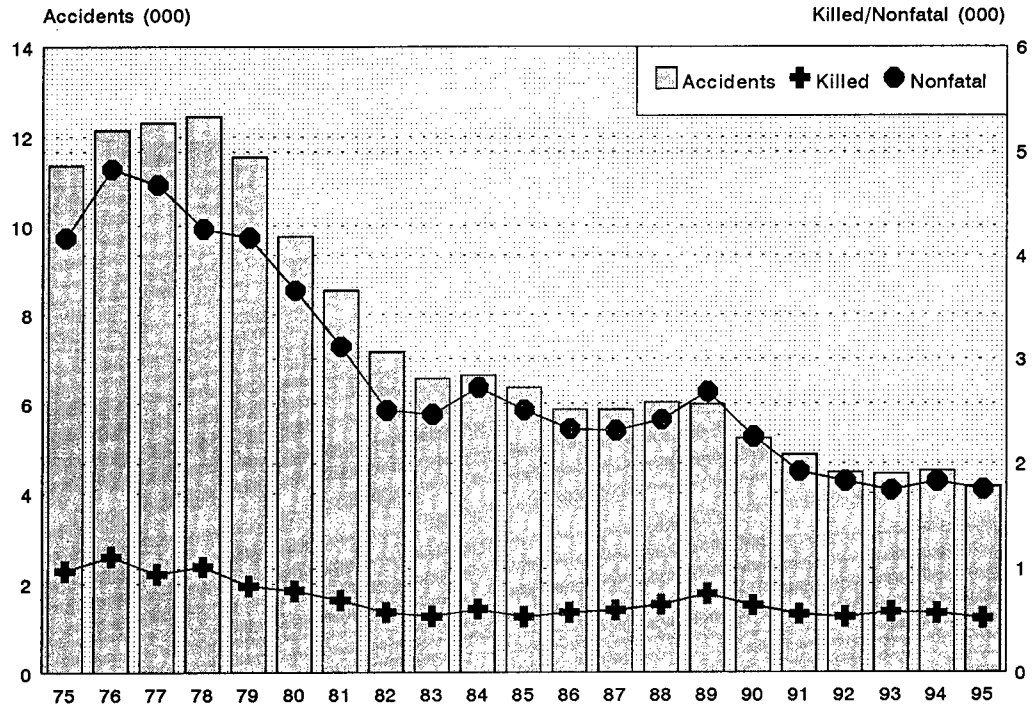
(G R A P H S)

HISTORICAL ACCIDENT TRENDS

FOR

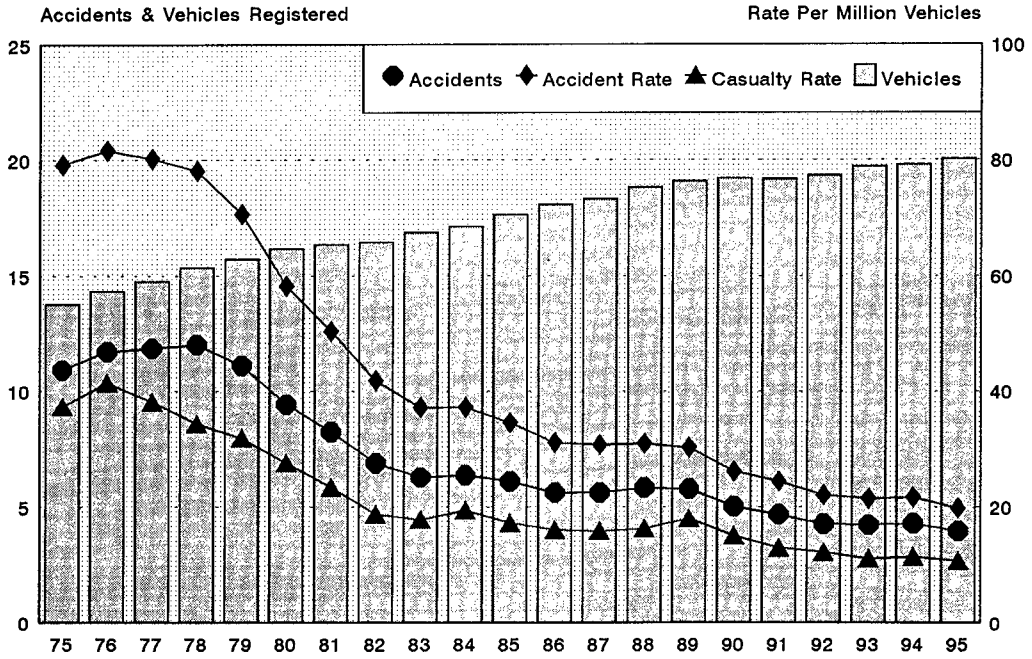
PUBLIC CROSSINGS ONLY

FIGURE 1. SUMMARY OF ACCIDENTS/INCIDENTS AND CASUALTIES AT PUBLIC HIGHWAY-RAIL CROSSINGS



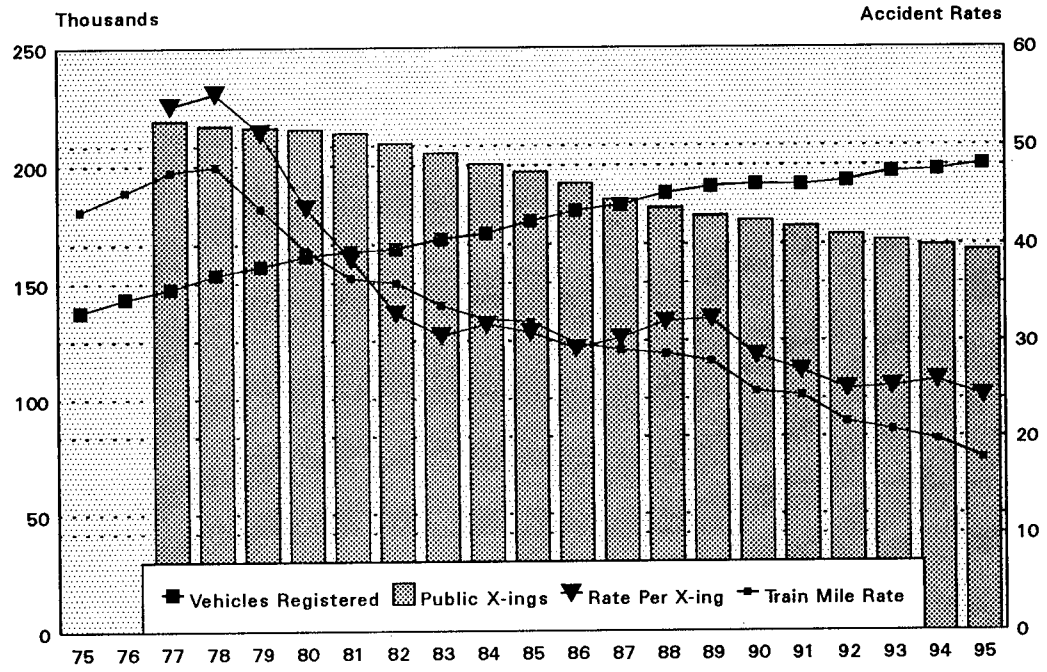
For accidents use scale on left axis, casualties use scale on right axis.

FIGURE 2. SUMMARY OF MOTOR VEHICLE ACCIDENTS/INCIDENTS AND RATES AT PUBLIC HIGHWAY-RAIL CROSSINGS



The number of accidents are shown in thousands using left axis.
The number of registered vehicles are shown in ten thousands using left axis.
Accident and casualty rates use right axis.

FIGURE 2A. SUMMARY OF MOTOR VEHICLE ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS AND NUMBER OF CROSSINGS



PUBLIC AT GRADE CROSSINGS

Accident rates are shown in terms of the frequency per 1,000 public at grade crossings, and the frequency per 3,000,000 train miles operated.

(D A T A)

HISTORICAL ACCIDENT TRENDS

FOR

PUBLIC CROSSINGS ONLY

TABLE 1. SUMMARY OF ACCIDENTS/INCIDENTS AND CASUALTIES AT HIGHWAY-RAIL PUBLIC CROSSINGS

YEAR	NUMBER OF ACCIDENTS	TOTAL		CASUALTIES PER ACCIDENT
		KILLED	INJURED	CASUALTIES	
1990	5,233	648	2,254	2,902	0.55
1991	4,861	565	1,923	2,488	0.51
1992	4,465	536	1,830	2,366	0.52
1993	4,437	584	1,744	2,328	0.52
1994	4,503	572	1,829	2,401	0.53
1995	4,153	524	1,754	2,278	0.55

TABLE 2. SUMMARY OF ACCIDENTS/INCIDENTS AND ACCIDENT RATES AT HIGHWAY-RAIL PUBLIC CROSSINGS INVOLVING MOTOR VEHICLES

YEAR	ACCIDENTS	MOTOR VEHICLES REGISTERED (000)[1]	ACCIDENTS PER MILLION VEHICLES
1990	5,022	192,123	26.14
1991	4,677	191,743	24.39
1992	4,269	193,430	22.07
1993	4,240	197,254	21.49
1994	4,296	198,045	21.69
1995	3,972	200,446[2]	19.81

[1]Figures supplied by the Federal Highway Administration.

[2]1995 MOTOR VEHICLE NUMBERS ARE PRELIMINARY.
Registration figures for Hawaii are omitted because it does not have any reporting railroads.

(G R A P H S)

CURRENT YEAR ACCIDENTS

AT

PUBLIC CROSSINGS ONLY

FIGURE 3A. ACCIDENTS BY HIGHWAY USER

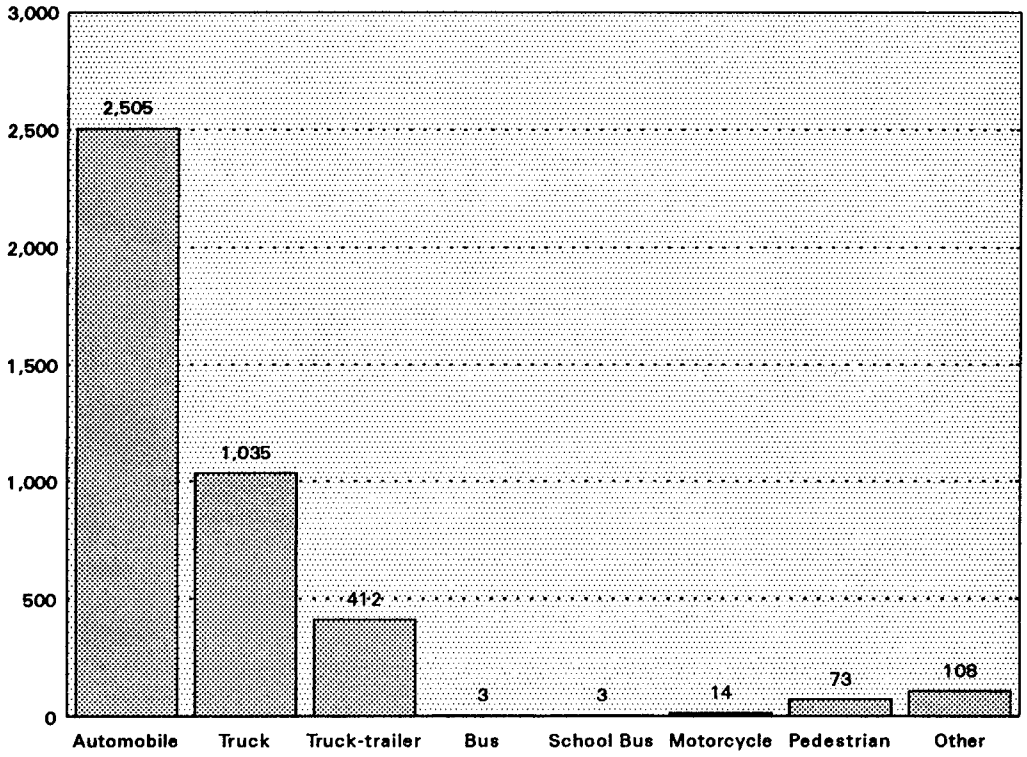


FIGURE 3B. CASUALTIES BY HIGHWAY USER

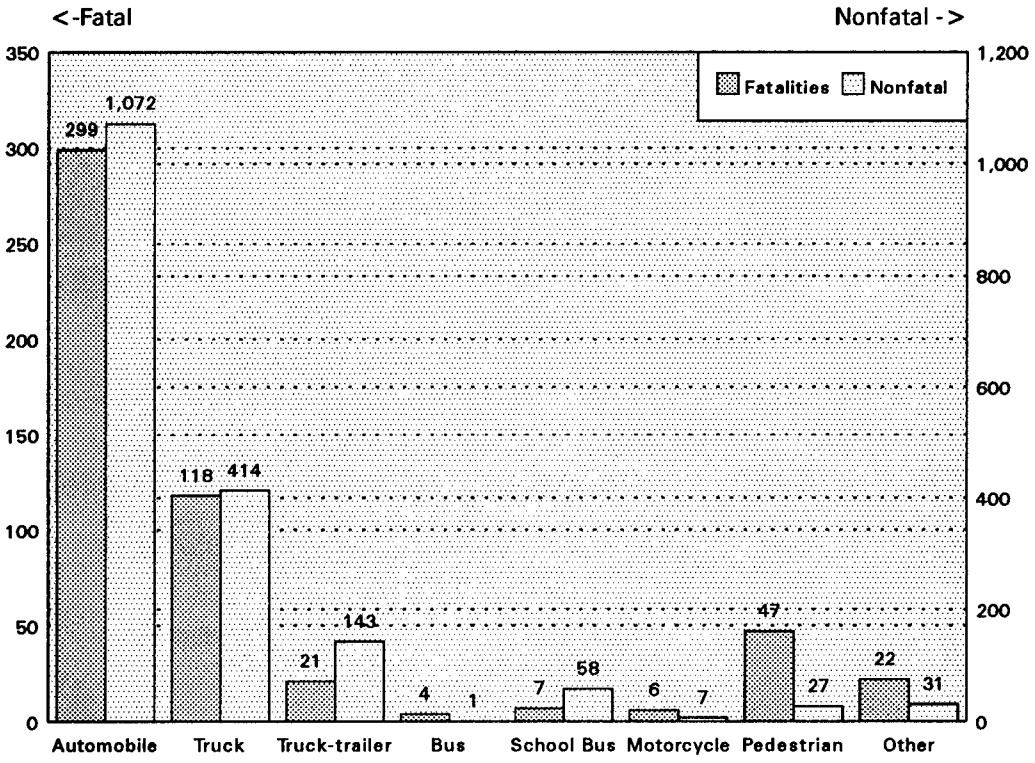


FIGURE 4A. MOTOR VEHICLE ACCIDENTS/INCIDENTS

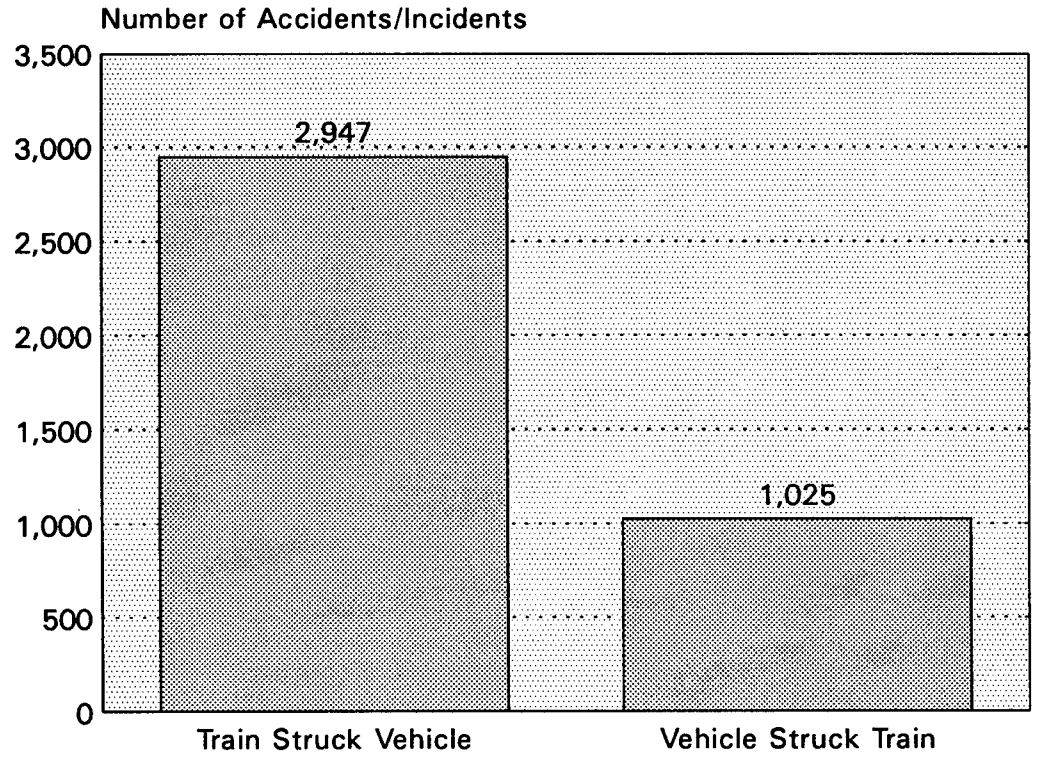


FIGURE 4B. CASUALTIES IN MOTOR VEHICLE ACCIDENT/INCIDENTS

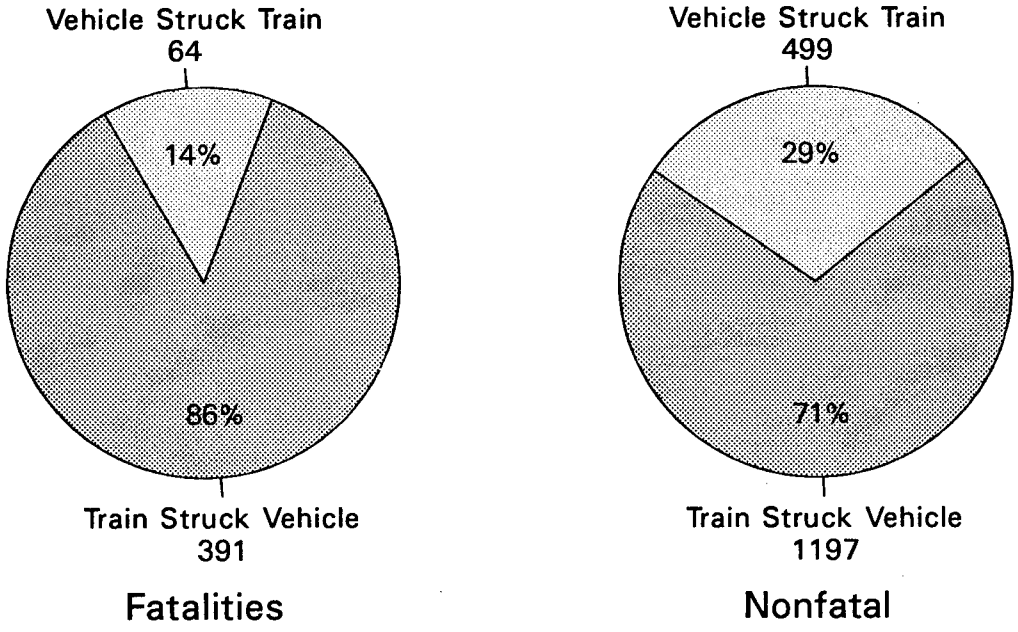
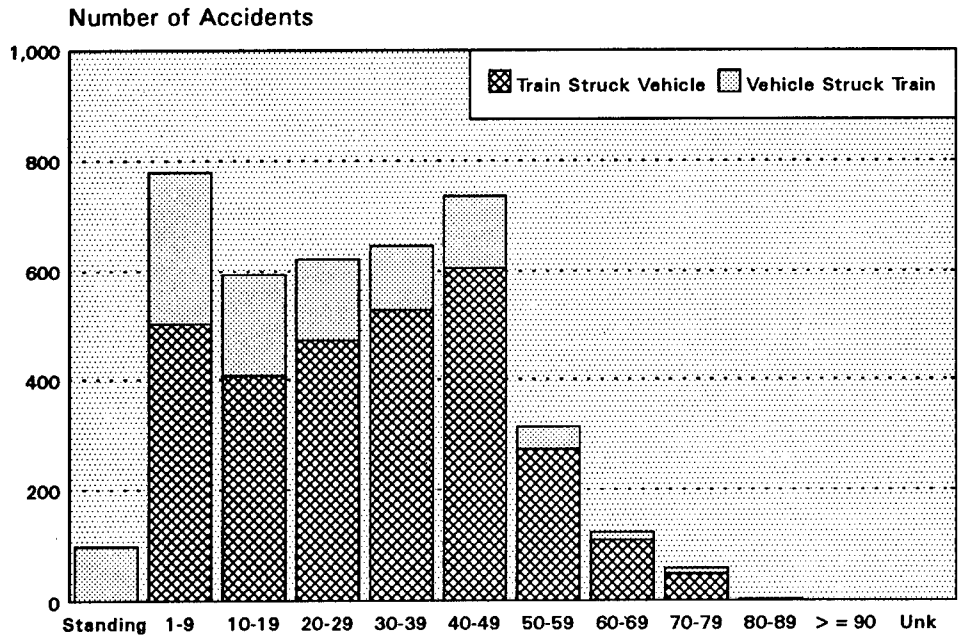
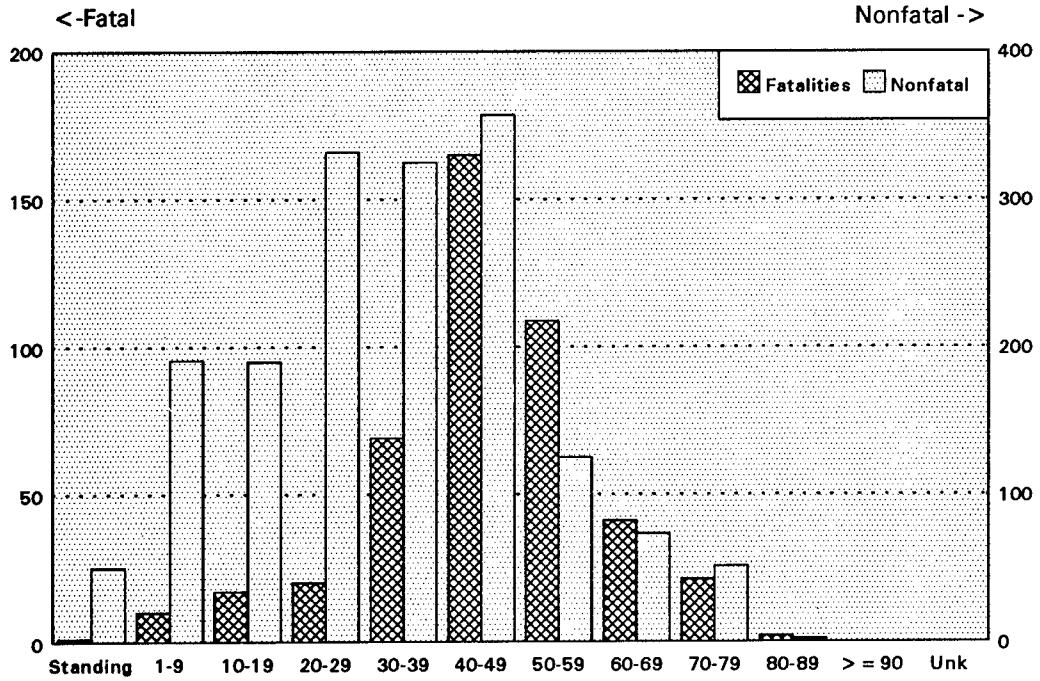


FIGURE 5A. MOTOR VEHICLE ACCIDENTS/INCIDENTS BY RAIL CONSIST SPEED



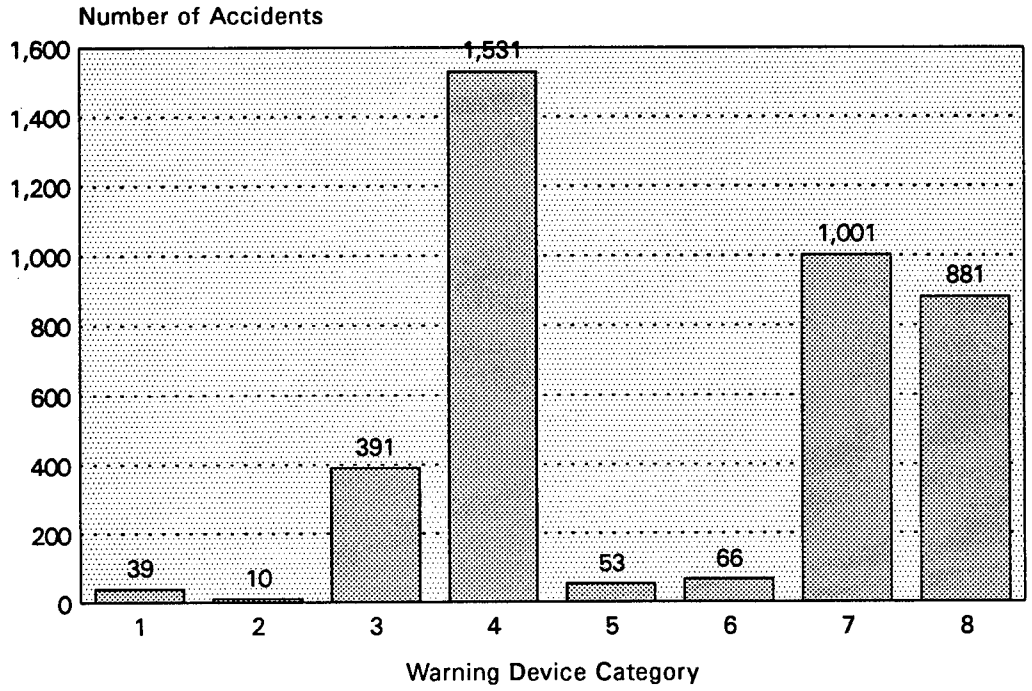
Vehicle Struck Train	98	277	187	150	118	130	40	14	10	1	0	0
Train Struck Vehicle	0	502	407	472	528	606	273	109	49	1	0	0

FIGURE 5B. CASUALTIES BY RAIL CONSIST SPEED



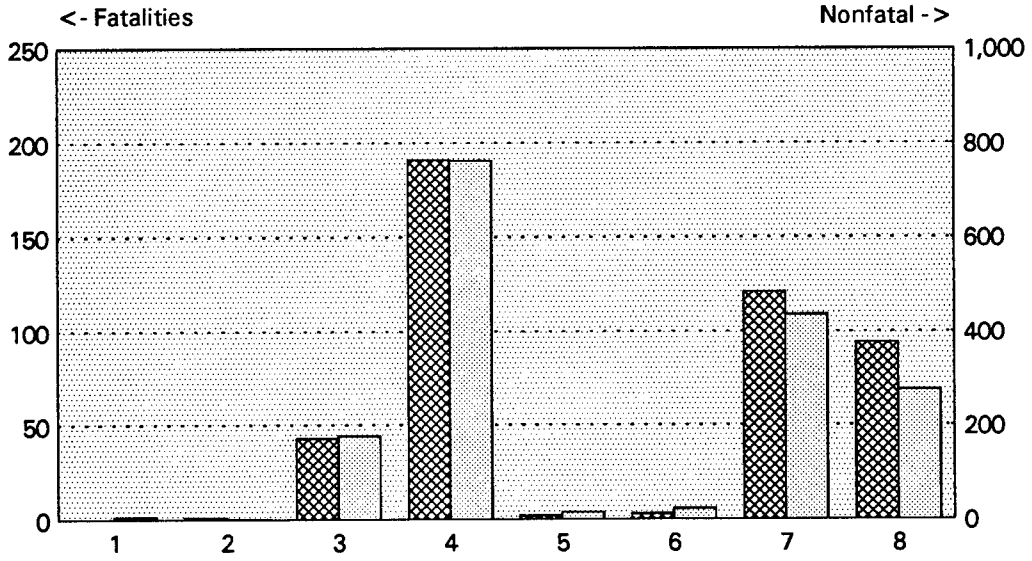
Fatalities	1	10	17	20	69	165	109	41	21	2	0	0
Nonfatal	50	191	190	332	325	357	125	73	51	2	0	0

FIGURE 6A. ACCIDENTS BY WARNING DEVICE CATEGORY



Motor vehicle accidents
1 = No signs or signals; 2 = Other signs; 3 = Stop Signs; 4 = Crossbucks; 5 = Special warning;
6 = Highway signals, wigwags, bells; 7 = Flashing lights; 8 = Gates

FIGURE 6B. CASUALTIES BY WARNING DEVICE CATEGORY



	1	2	3	4	5	6	7	8
Fatalities	0	1	43	191	2	3	121	94
Nonfatal	6	2	177	762	15	23	436	275

Motor vehicle accidents
1 = No signs or signals; 2 = Other signs; 3 = Stop Signs; 4 = Crossbucks; 5 = Special warning;
6 = Highway signals, wigwags, bells; 7 = Flashing lights; 8 = Gates

FIGURE 7A. ACCIDENTS/INCIDENTS BY NUMBER OF TRAINS PER DAY AND ANNUAL AVERAGE DAILY TRAFFIC

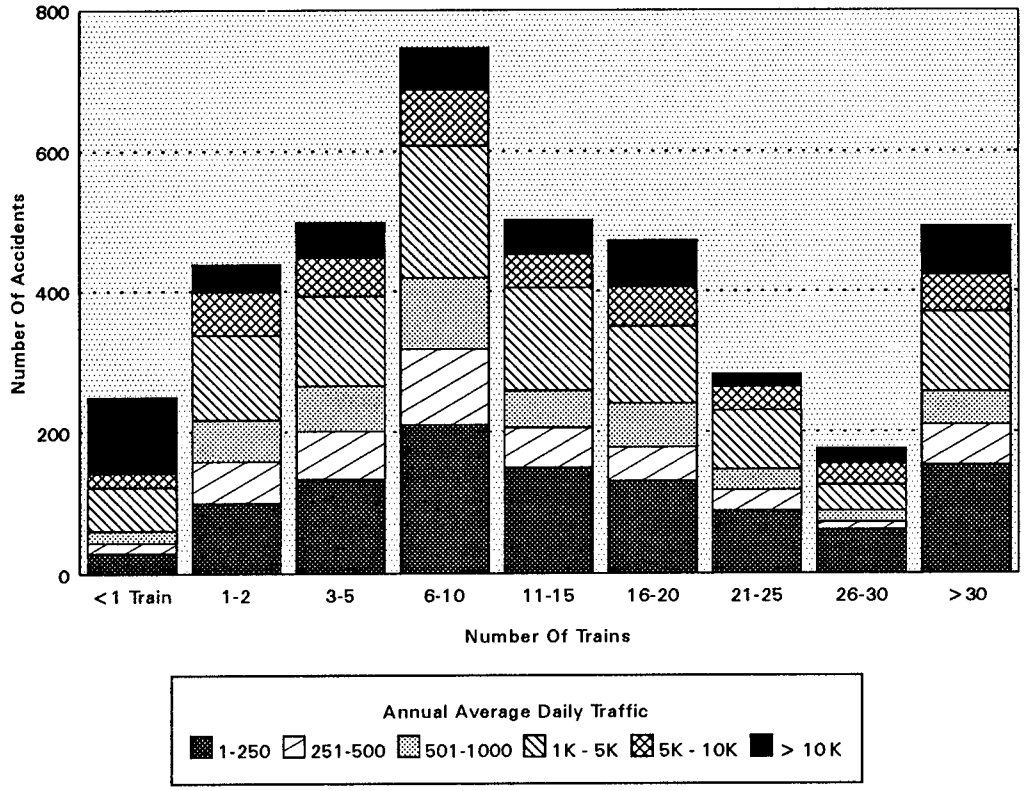


FIGURE 7B. ACCIDENTS/INCIDENTS BY NUMBER OF TRAINS PER DAY AND WARNING DEVICE CATEGORY

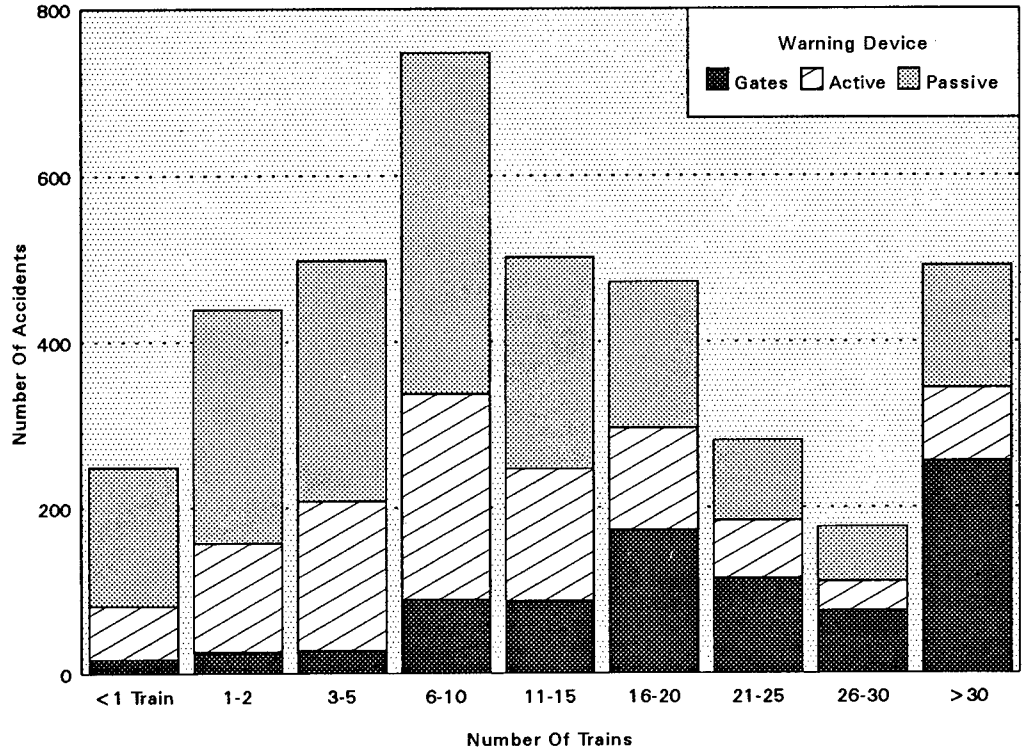
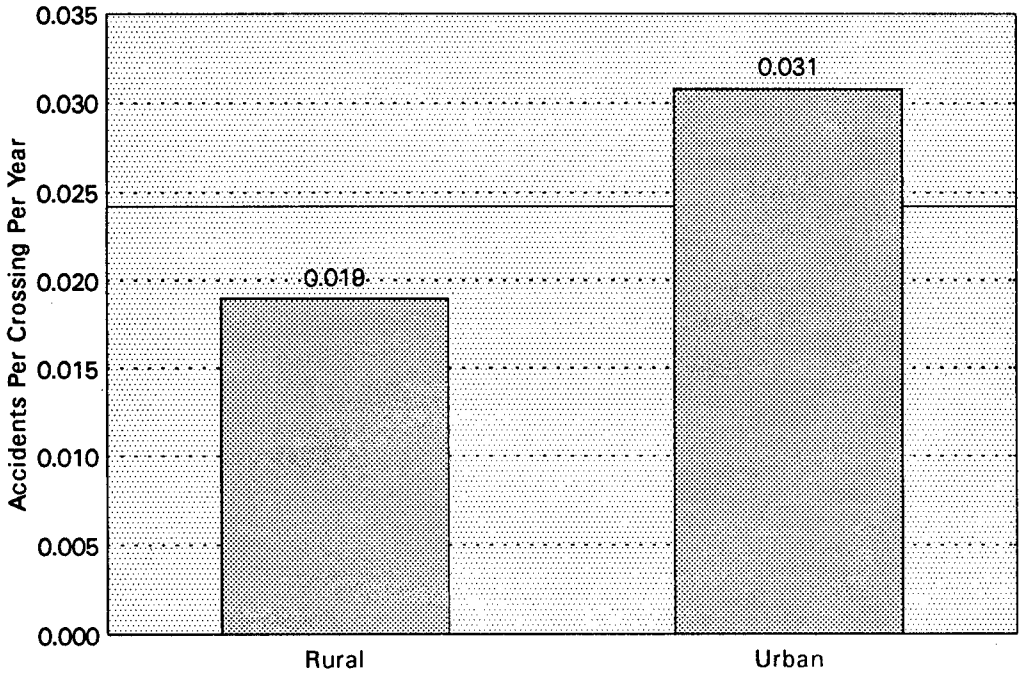
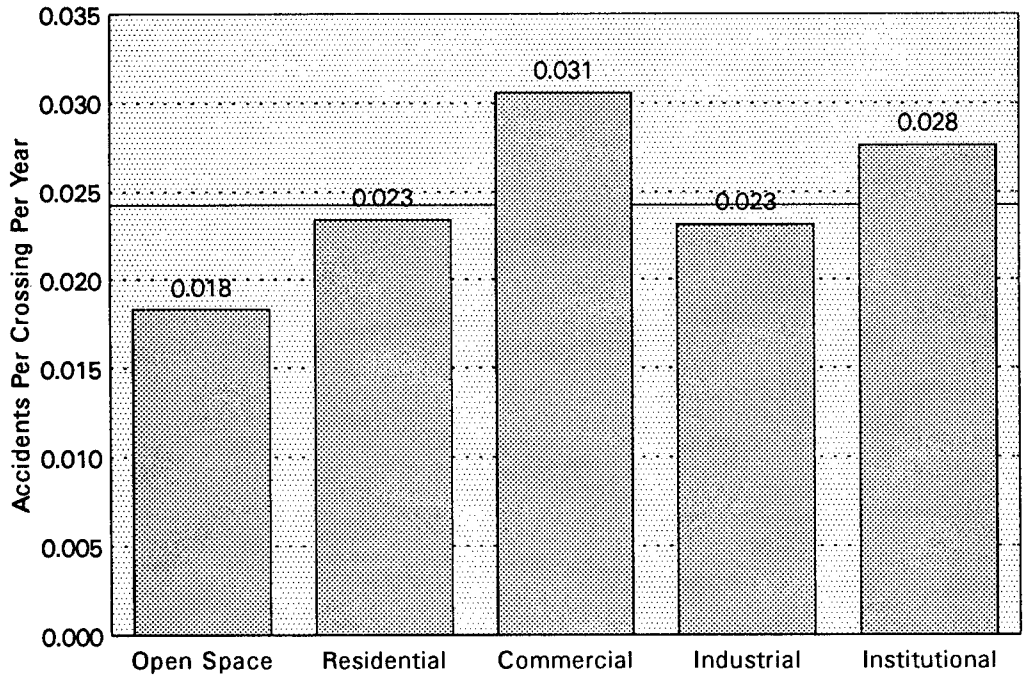


FIGURE 8. CROSSING ACCIDENT RATE BY LOCATION



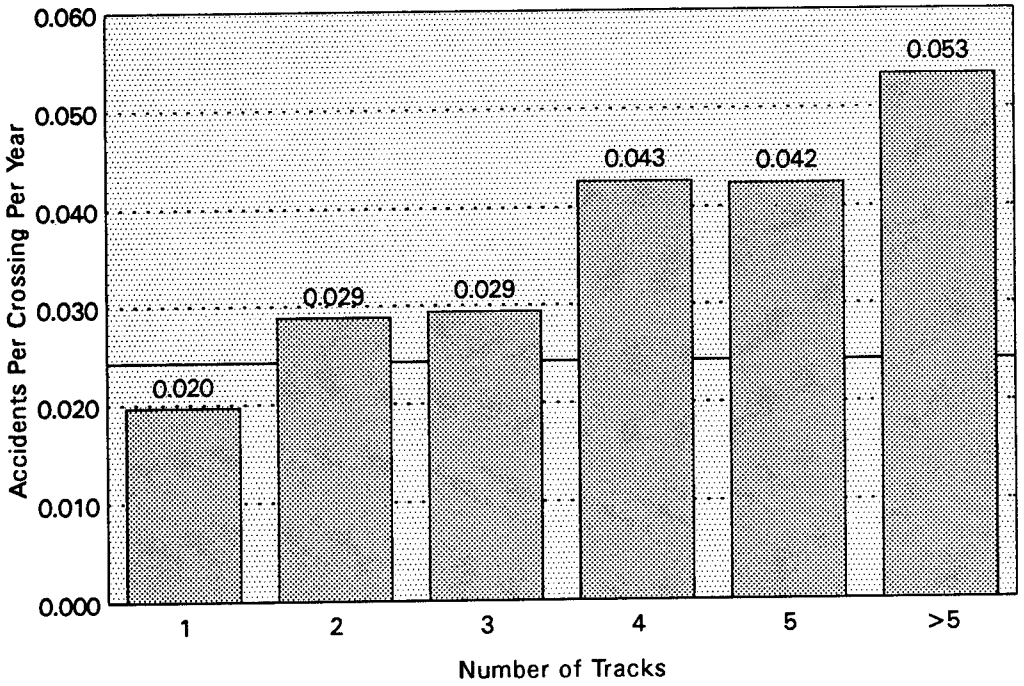
National average .02423

FIGURE 9. CROSSING ACCIDENT RATE BY TYPE DEVELOPMENT



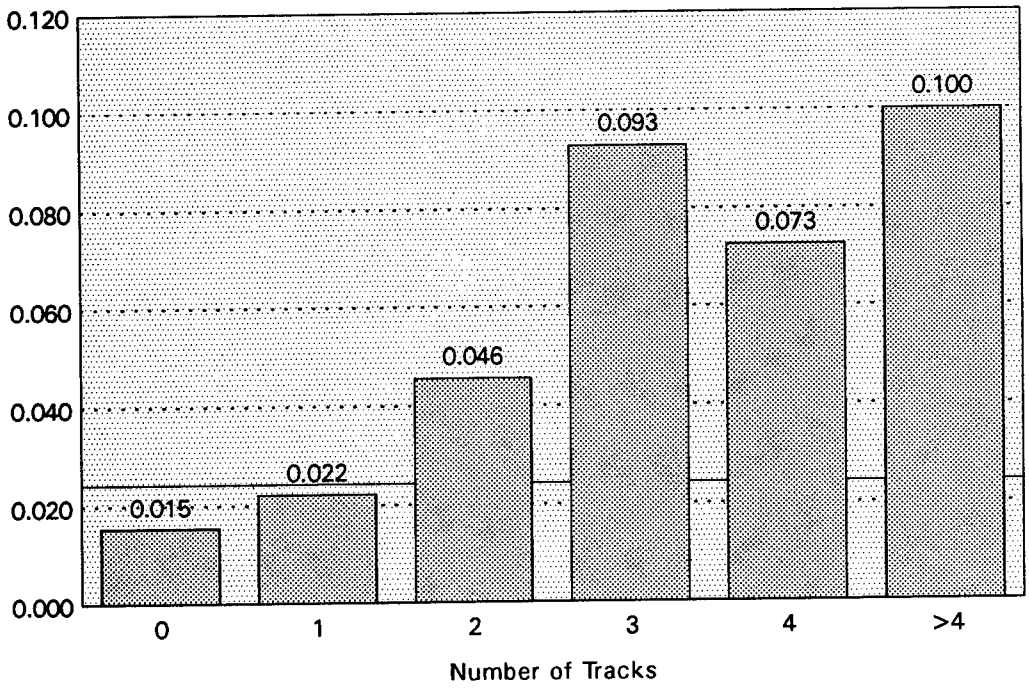
National average .02423

FIGURE 10. CROSSING ACCIDENT RATE BY NUMBER OF TRACKS



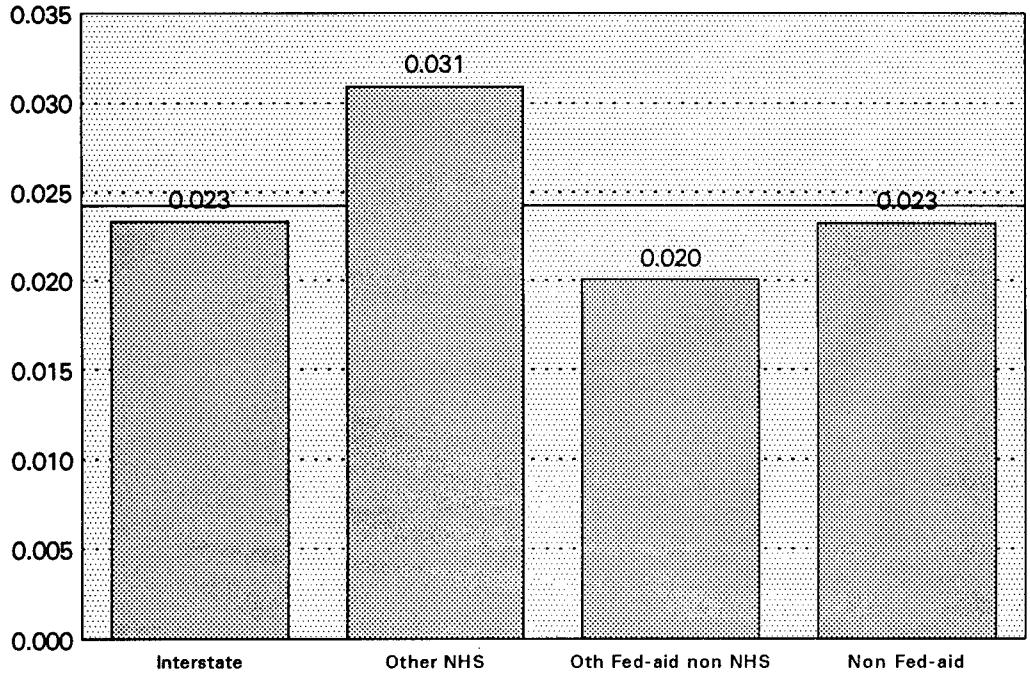
National average .02423

FIGURE 11. CROSSING ACCIDENT RATE BY NUMBER OF MAINLINE TRACKS



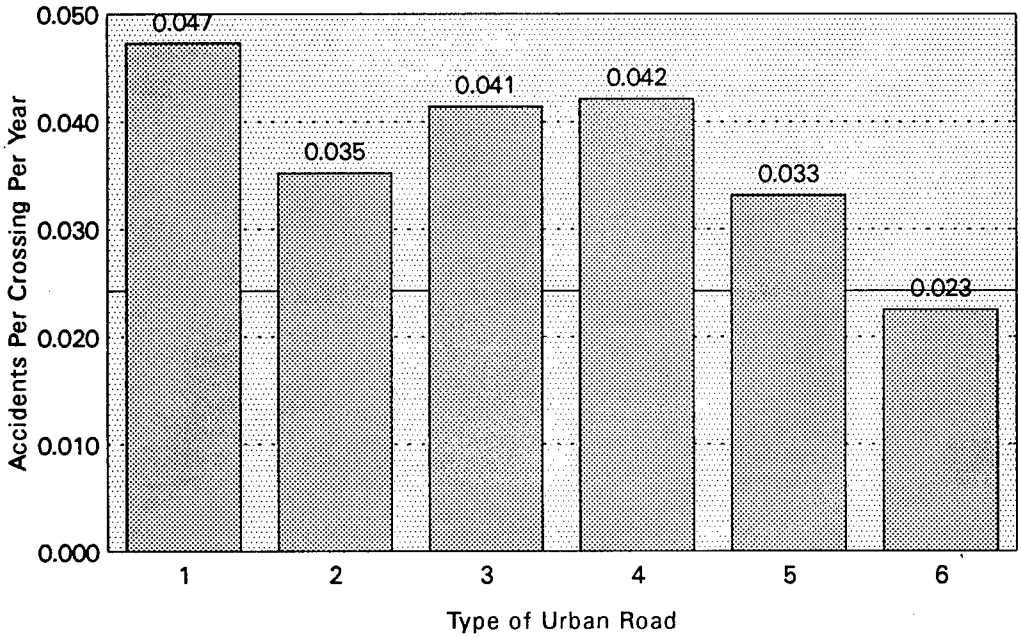
National average .02423

FIGURE 12. CROSSING ACCIDENT RATE BY HIGHWAY SYSTEM



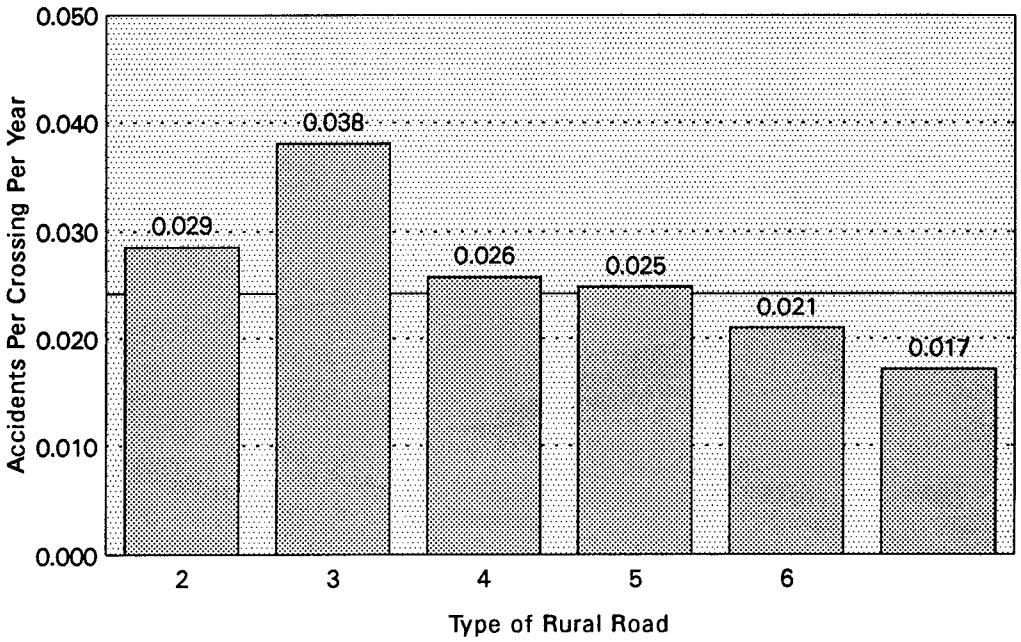
National average .02423

FIGURE 13. CROSSING ACCIDENT RATE BY TYPE OF URBAN ROAD



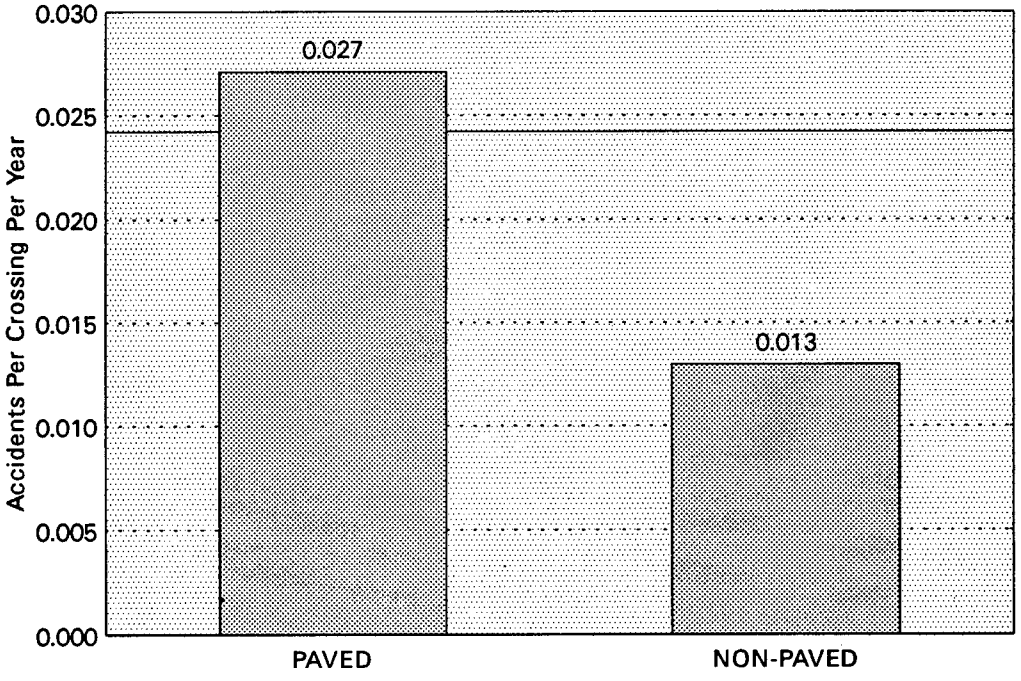
National average .02423
1 = Interstate; 2 = Other freeway or expressway; 3 = Other principal arterial;
4 = Minor arterial; 5 = Collector; 6 = Local

FIGURE 14. CROSSING ACCIDENT RATE BY TYPE OF RURAL ROAD



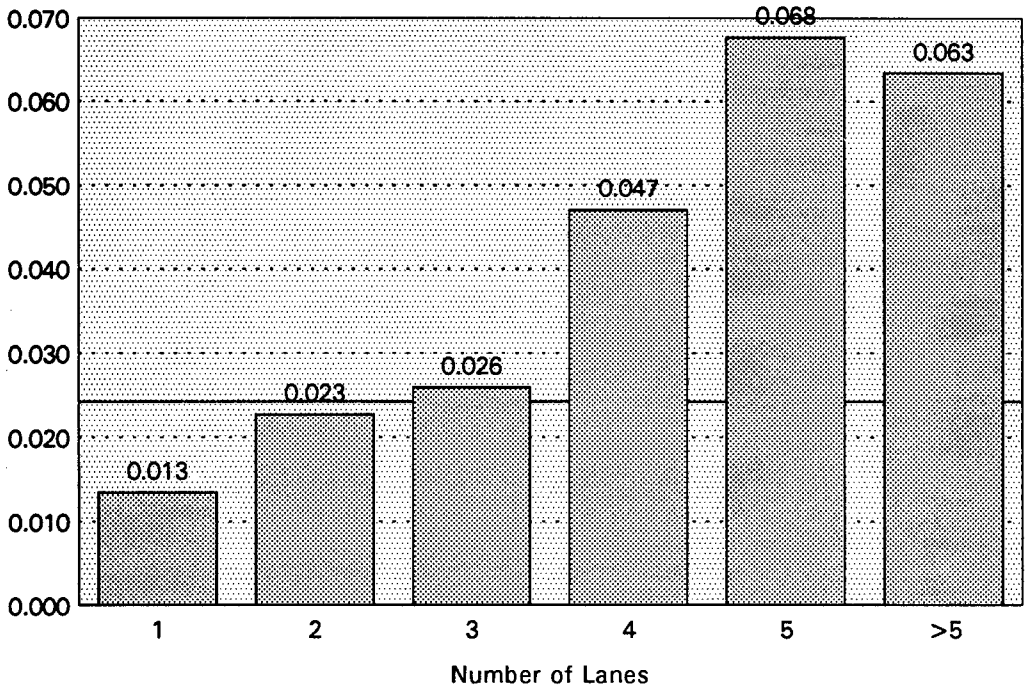
National average .02423
1 = Interstate; 2 = Other freeway or expressway; 3 = Other principal arterial;
4 = Minor arterial; 5 = Collector; 6 = Local

FIGURE 15. CROSSING ACCIDENT RATE BY PAVED OR NON-PAVED ROAD SURFACE



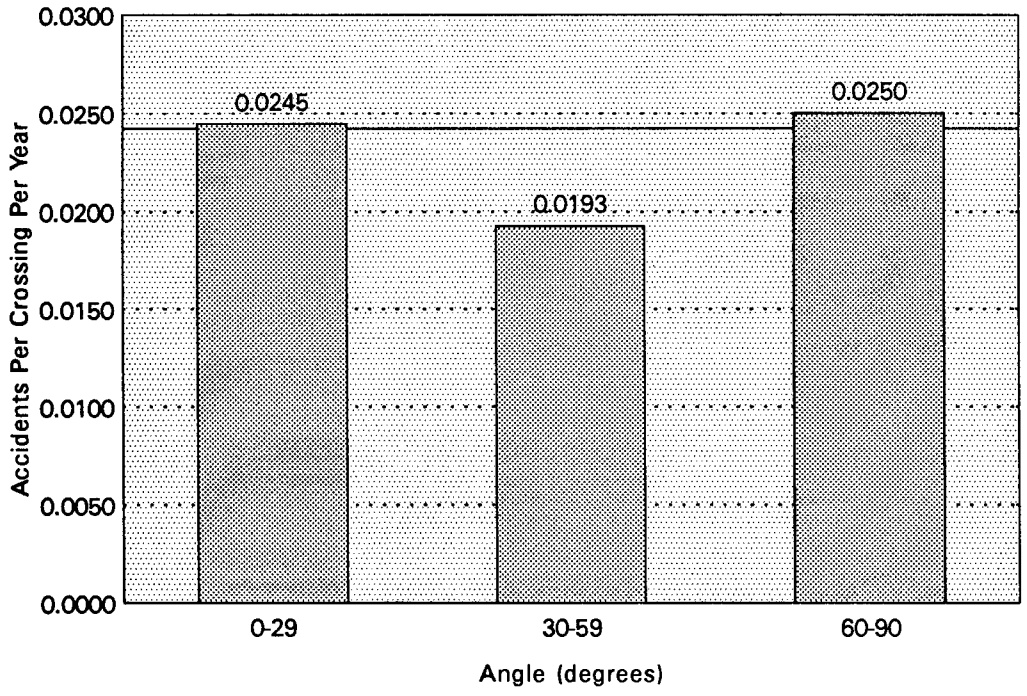
National average .02423

FIGURE 16. CROSSING ACCIDENT RATE BY NUMBER OF TRAFFIC LANES



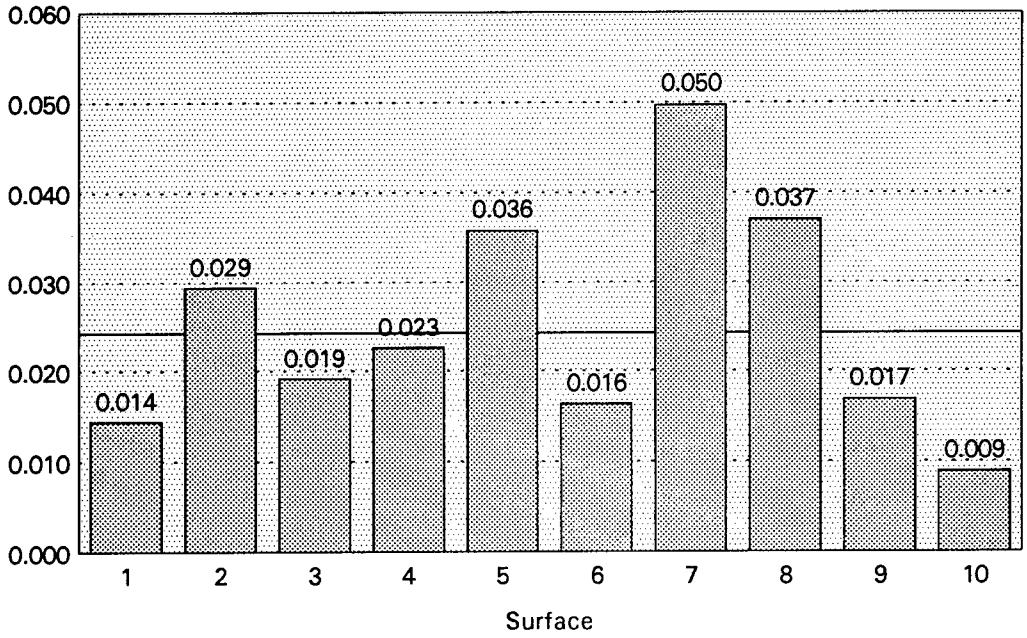
National average .02423

FIGURE 17. CROSSING ACCIDENT RATE BY SMALLEST CROSSING ANGLE



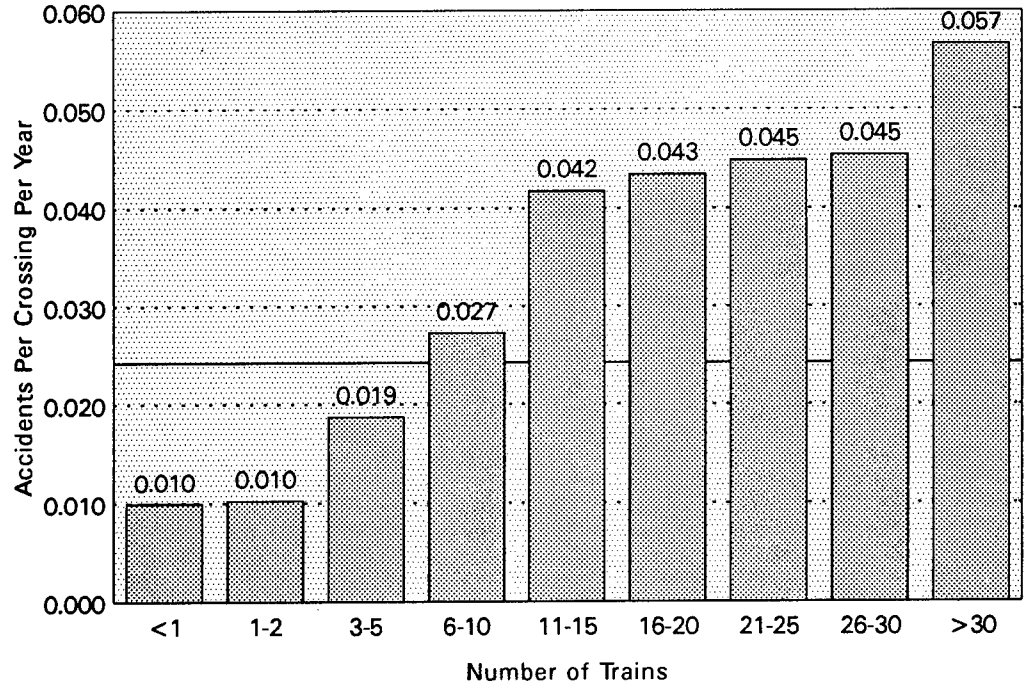
National average .02423

FIGURE 18. CROSSING ACCIDENT RATE BY CROSSING SURFACE



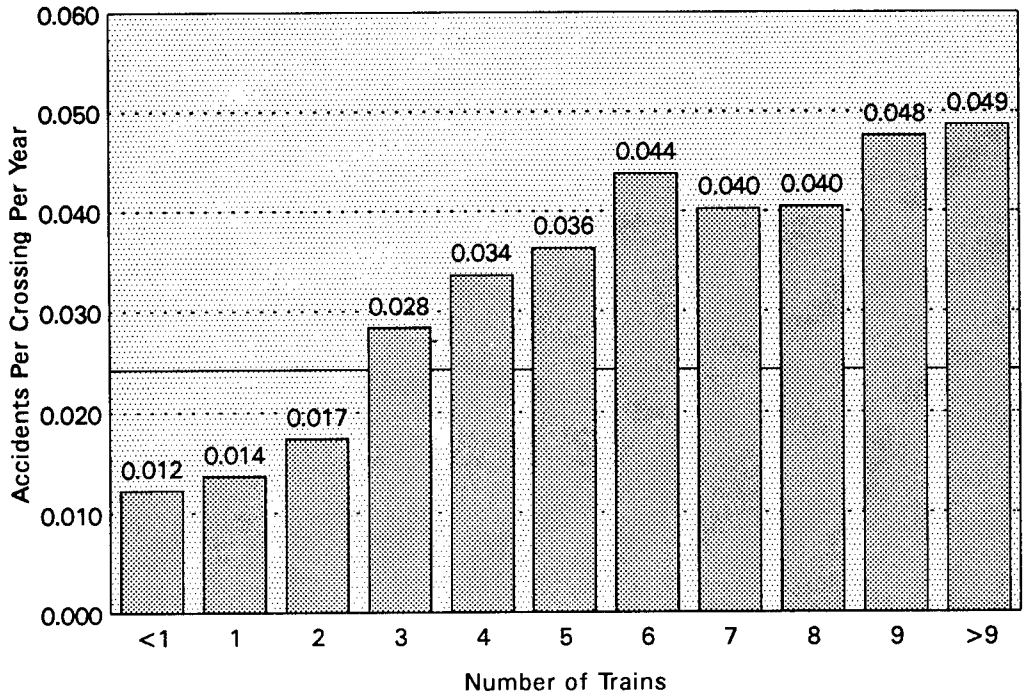
National average .02423
1 = Section timber; 2 = Full wood plank; 3 = Asphalt; 4 = Concrete slab; 5 = Concrete pavement; 6 = Rubber; 7 = Metal sections; 8 = Other metal; 9 = Unconsolidated; 10 = Other

FIGURE 19. CROSSING ACCIDENT RATE BY NUMBER OF TRAINS PER DAY



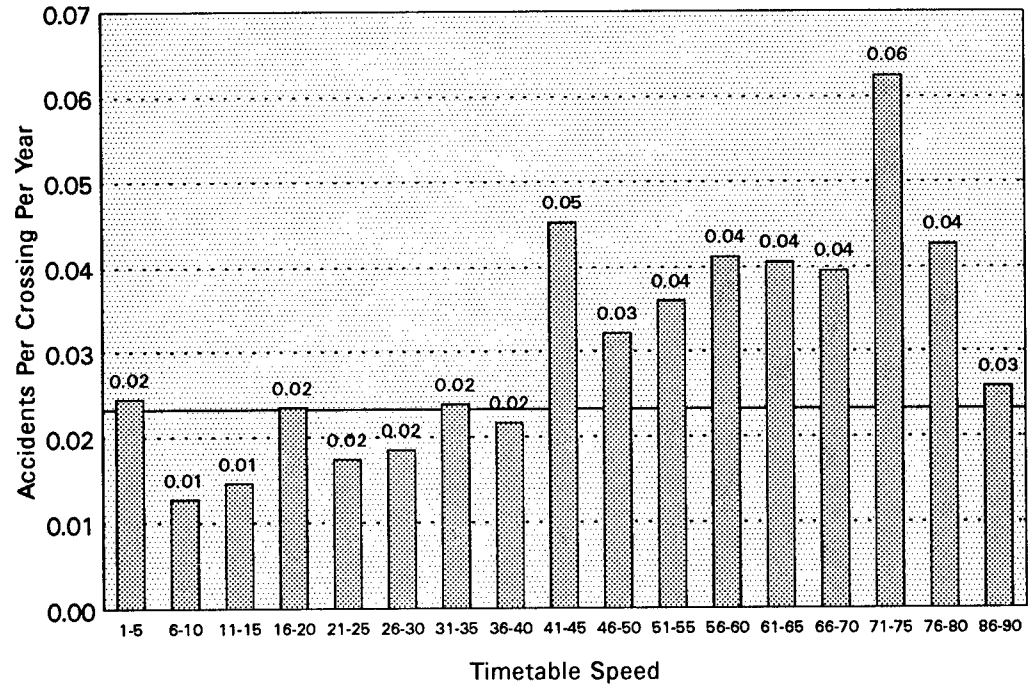
National average .02423

FIGURE 20. CROSSING ACCIDENT RATE BY NUMBER OF THRU-TRAINS DURING DAYLIGHT HOURS (6am to 6pm)



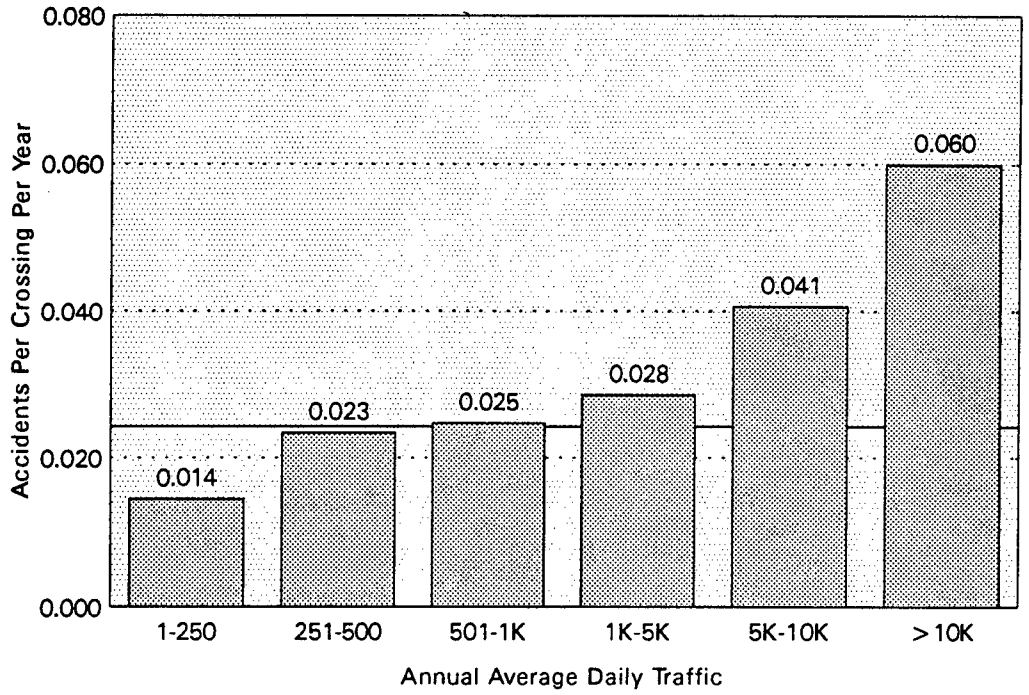
National average .02423

FIGURE 21. CROSSING ACCIDENT RATE BY MAXIMUM TIMETABLE SPEED



National average .02323

FIGURE 22. CROSSING ACCIDENT RATE BY ANNUAL AVERAGE DAILY TRAFFIC

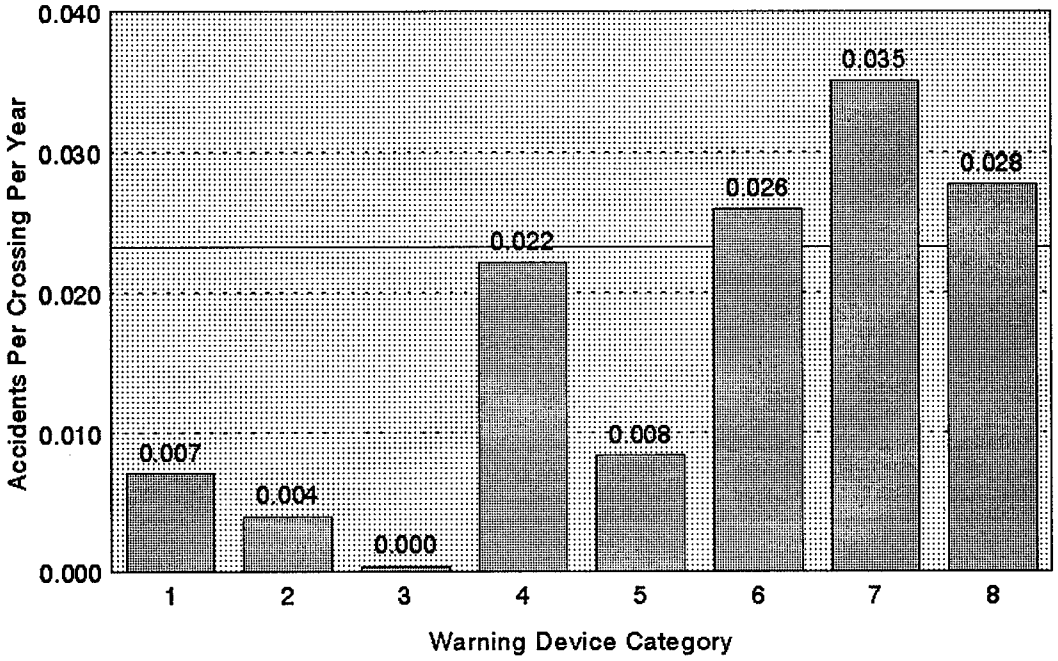


National average .02423

FIGURE 23. CROSSING ACCIDENT RATES BY NUMBER OF TRAINS AND ANNUAL AVERAGE DAILY TRAFFIC

	Annual Average Daily Traffic					
Trains	1-250	251-500	501-1k	1k-5k	5k-10k	>10k
1	0.0027	0.005	0.006	0.011	0.011	0.088
2	0.0048	0.0115	0.0128	0.0145	0.0253	0.0238
3	0.0111	0.0211	0.0217	0.0233	0.0335	0.0377
4	0.0174	0.0323	0.0328	0.0325	0.0459	0.0451
5	0.0285	0.0425	0.039	0.054	0.0629	0.0773
6	0.0294	0.0362	0.0481	0.0443	0.0685	0.1205
7	0.0359	0.042	0.0415	0.0552	0.0672	0.0448
8	0.0389	0.0248	0.0378	0.0404	0.1076	0.0844
9	0.0433	0.062	0.0511	0.0582	0.0683	0.1144

FIGURE 24. CROSSING ACCIDENT RATE BY WARNING DEVICE CATEGORY



National average .02423
1 = No signs or signals; 2 = Other signs; 3 = Stop Signs; 4 = Crossbucks; 5 = Special warning; 6 = Highway signals, wigwags, bells; 7 = Flashing lights; 8 = Gates

(M A P S)

CURRENT YEAR ACCIDENTS

AT

PUBLIC CROSSINGS ONLY

FIGURE 25A. MOTOR VEHICLE ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS, 1995

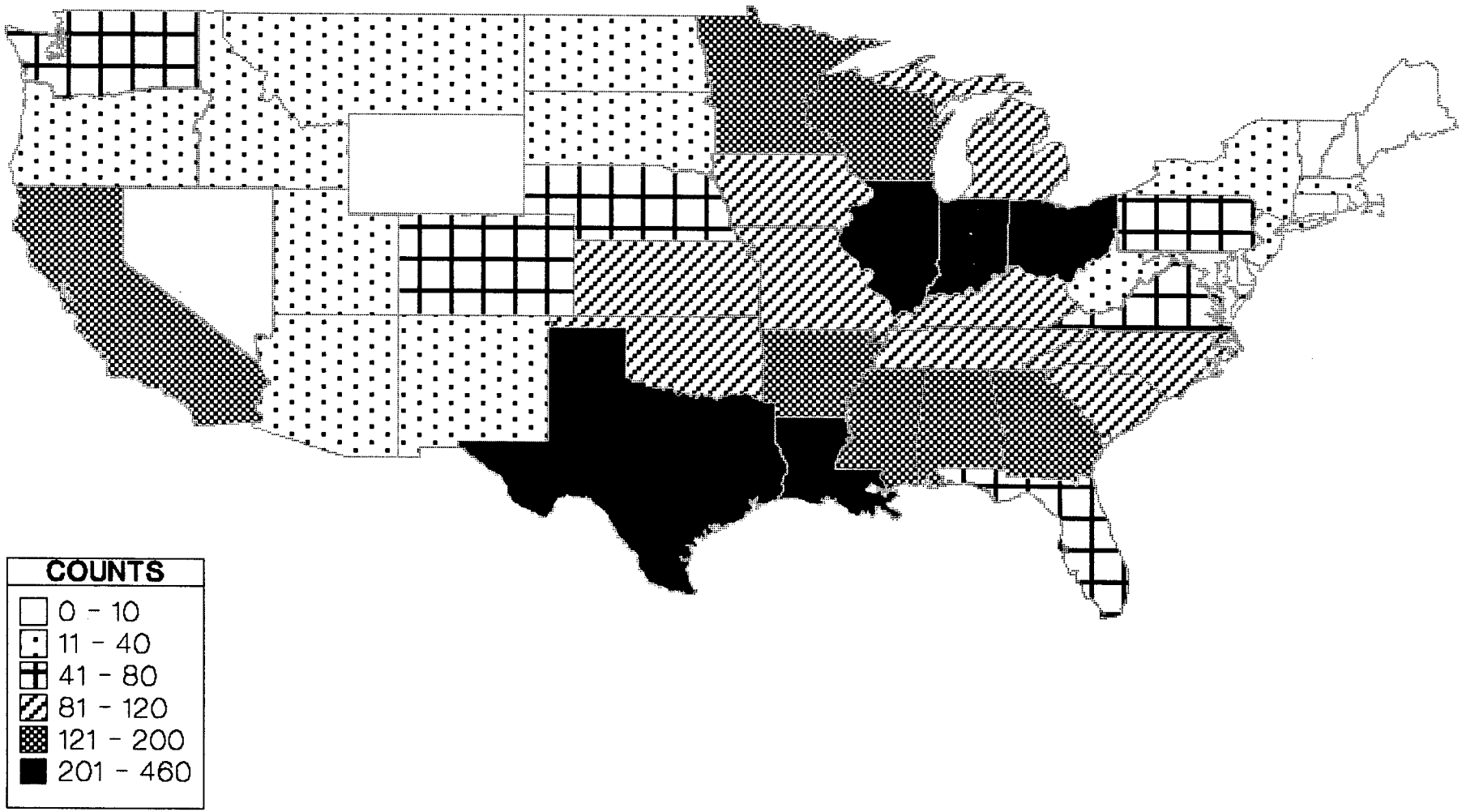


FIGURE 25B. MOTOR VEHICLE ACCIDENTS/INCIDENTS KILLED AT PUBLIC HIGHWAY-RAIL CROSSINGS, 1995

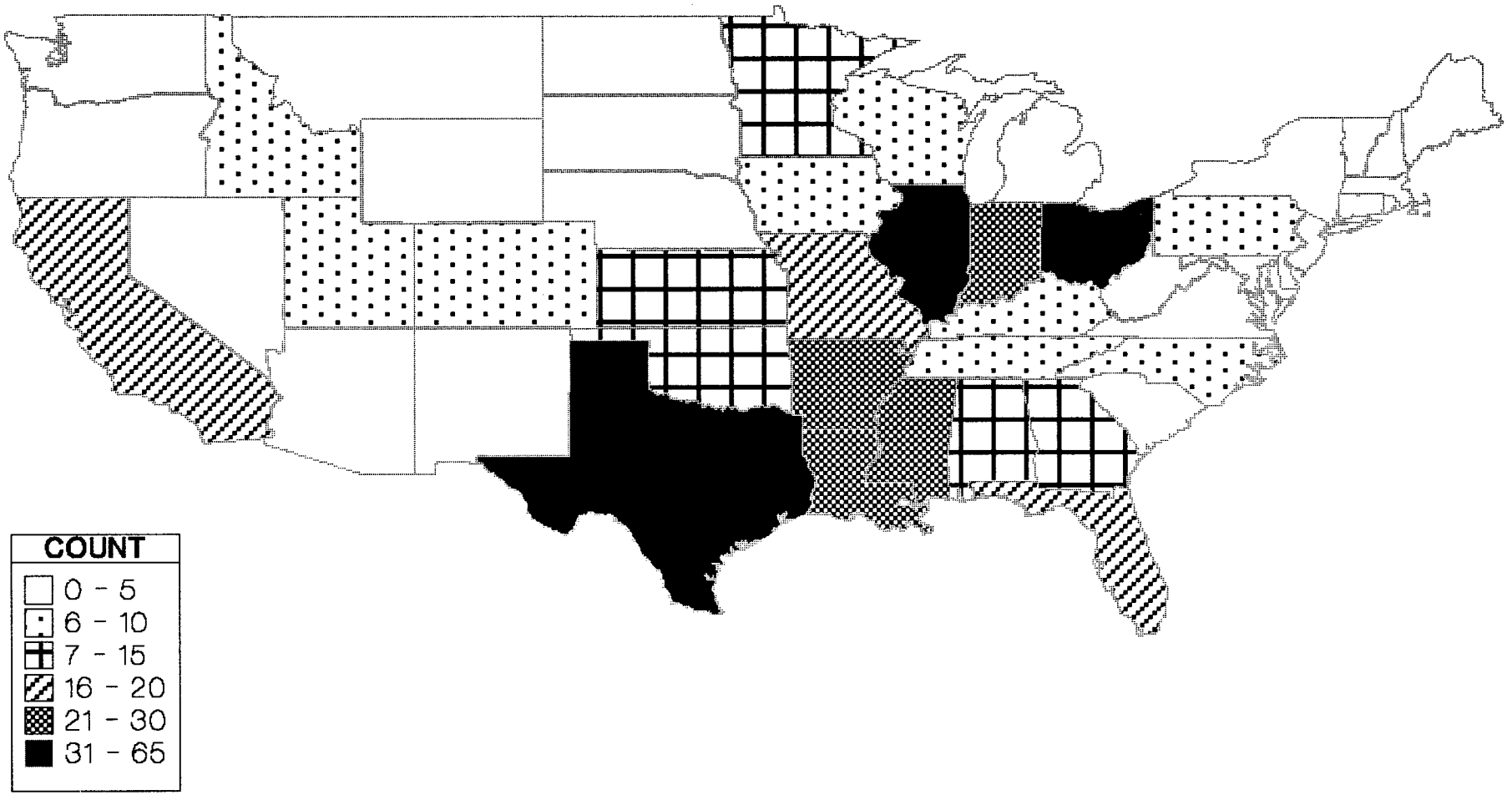


FIGURE 25C. MOTOR VEHICLE ACCIDENTS/INCIDENTS INJURED AT PUBLIC HIGHWAY-RAIL CROSSINGS, 1995

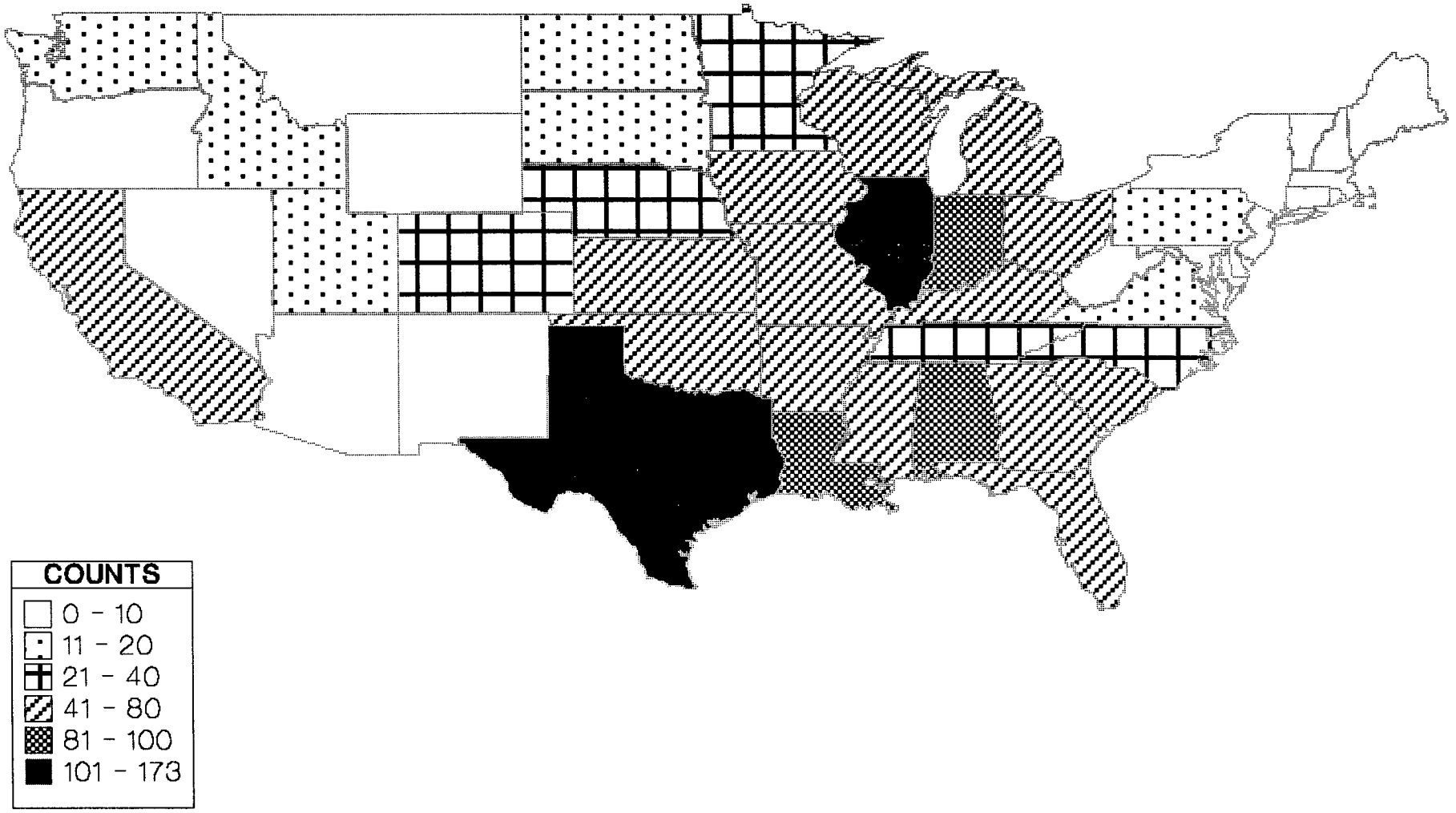


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TABLE 3. ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS, BY STATE, 1995

State	No. Of Acc/Inc	----Killed--- No.	%	---Injured--- No.	%	Total -Casualties-- No.	%
Alabama.....	168	16	3.05	84	4.79	100	4.39
Alaska.....	3	---	---	5	.29	5	.22
Arizona.....	34	2	.38	10	.57	12	.53
Arkansas.....	150	22	4.20	68	3.88	90	3.95
California.....	169	25	4.77	58	3.31	83	3.64
Colorado.....	53	10	1.91	30	1.71	40	1.76
Connecticut.....	6	1	.19	4	.23	5	.22
Delaware.....	3	---	---	1	.06	1	.04
Dist. of Columbia	---	---	---	---	---	---	---
Florida.....	88	22	4.20	50	2.85	72	3.16
Georgia.....	147	16	3.05	65	3.71	81	3.56
Idaho.....	33	7	1.34	15	.86	22	.97
Illinois.....	268	47	8.97	130	7.41	177	7.77
Indiana.....	255	29	5.53	89	5.07	118	5.18
Iowa.....	118	8	1.53	67	3.82	75	3.29
Kansas.....	92	14	2.67	42	2.39	56	2.46
Kentucky.....	87	6	1.15	43	2.45	49	2.15
Louisiana.....	205	28	5.34	97	5.53	125	5.49
Maine.....	6	---	---	3	.17	3	.13
Maryland.....	11	---	---	6	.34	6	.26
Massachusetts....	13	1	.19	---	---	1	.04
Michigan.....	126	5	.95	67	3.82	72	3.16
Minnesota.....	139	17	3.24	29	1.65	46	2.02
Mississippi.....	146	29	5.53	46	2.62	75	3.29
Missouri.....	113	22	4.20	50	2.85	72	3.16
Montana.....	13	4	.76	4	.23	8	.35
Nebraska.....	71	7	1.34	26	1.48	33	1.45
Nevada.....	5	1	.19	2	.11	3	.13
New Hamshire.....	4	---	---	2	.11	2	.09
New Jersey.....	20	4	.76	2	.11	6	.26
New Mexico.....	15	4	.76	10	.57	14	.61
New York.....	42	8	1.53	10	.57	18	.79
North Carolina...	122	10	1.91	38	2.17	48	2.11
North Dakota.....	34	6	1.15	17	.97	23	1.01
Ohio.....	220	34	6.49	79	4.50	113	4.96
Oklahoma.....	108	15	2.86	63	3.59	78	3.42
Oregon.....	29	3	.57	5	.29	8	.35
Pennsylvania.....	70	9	1.72	12	.68	21	.92
Rhode Island.....	1	---	---	1	.06	1	.04
South Carolina...	99	6	1.15	62	3.53	68	2.99
South Dakota.....	41	4	.76	15	.86	19	.83
Tennessee.....	91	11	2.10	30	1.71	41	1.80
Texas.....	423	48	9.16	207	11.80	255	11.19
Utah.....	30	7	1.34	14	.80	21	.92
Vermont.....	3	---	---	2	.11	2	.09
Virginia.....	57	5	.95	13	.74	18	.79
Washington.....	50	1	.19	12	.68	13	.57
West Virginia....	33	1	.19	9	.51	10	.44
Wisconsin.....	132	9	1.72	59	3.36	68	2.99
Wyoming.....	7	---	---	1	.06	1	.04
Unknown.....	---	---	---	---	---	---	---
Total.....	4,153	524	100.00	1,754	100.00	2,278	100.00

TABLE 4. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS, BY STATE, 1995

State	No. Of Acc/Inc	Casualties Kld	Casualties Inj	Casualties Total	Vehicles Registered	Per 10,000 Registration Acc/Inc	Per 10,000 Registration Kld	Per 10,000 Registration Inj
Alabama	164	15	83	98	31,600	51.90	4.75	26.27
Alaska	3	---	5	5	5,690	5.27	---	8.79
Arizona	27	---	9	9	28,270	9.55	---	3.18
Arkansas	149	22	68	90	16,310	91.35	13.49	41.69
California	156	16	54	70	229,160	6.81	.70	2.36
Colorado	53	10	30	40	27,760	19.09	3.60	10.81
Connecticut	6	1	4	5	26,310	2.28	.38	1.52
Delaware	3	---	1	1	6,010	4.99	---	1.66
Dist. of Columbia	---	---	---	---	2,430	---	---	---
Florida	80	17	45	62	107,340	7.45	1.58	4.19
Georgia	138	13	61	74	62,370	22.13	2.08	9.78
Idaho	32	7	15	22	10,800	29.63	6.48	13.89
Illinois	251	40	124	164	91,120	27.55	4.39	13.61
Indiana	247	25	89	114	51,260	48.19	4.88	17.36
Iowa	114	6	67	73	29,430	38.74	2.04	22.77
Kansas	89	13	41	54	21,870	40.70	5.94	18.75
Kentucky	84	6	41	47	27,090	31.01	2.21	15.13
Louisiana	201	26	96	122	35,120	57.23	7.40	27.33
Maine	6	---	3	3	9,610	6.24	---	3.12
Maryland	10	---	5	5	36,640	2.73	---	1.36
Massachusetts	12	1	---	1	41,600	2.88	.24	---
Michigan	120	4	64	68	77,770	15.43	.51	8.23
Minnesota	128	15	27	42	42,470	30.14	3.53	6.36
Mississippi	145	29	46	75	21,290	68.11	13.62	21.61
Missouri	107	19	49	68	43,590	24.55	4.36	11.24
Montana	12	4	3	7	9,780	12.27	4.09	3.07
Nebraska	63	4	24	28	14,920	42.23	2.68	16.09
Nevada	5	1	2	3	10,340	4.84	.97	1.93
New Hamshire	4	---	2	2	10,310	3.88	---	1.94
New Jersey	17	2	2	4	59,670	2.85	.34	.34
New Mexico	15	4	10	14	14,860	10.09	2.69	6.73
New York	38	4	10	14	103,710	3.66	.39	.96
North Carolina	119	9	37	46	54,910	21.67	1.64	6.74
North Dakota	29	5	13	18	7,080	40.96	7.06	18.36
Ohio	207	32	73	105	100,320	20.63	3.19	7.28
Oklahoma	105	15	61	76	28,710	36.57	5.22	21.25
Oregon	26	---	5	5	29,430	8.83	---	1.70
Pennsylvania	68	7	12	19	87,920	7.73	.80	1.36
Rhode Island	1	---	1	1	7,190	1.39	---	1.39
South Carolina	98	5	61	66	27,730	35.34	1.80	22.00
South Dakota	39	4	14	18	7,890	49.43	5.07	17.74
Tennessee	87	10	30	40	51,680	16.83	1.93	5.80
Texas	408	42	202	244	139,110	29.33	3.02	14.52
Utah	30	7	14	21	14,770	20.31	4.74	9.48
Vermont	2	---	2	2	5,090	3.93	---	3.93
Virginia	56	5	12	17	56,600	9.89	.88	2.12
Washington	48	1	11	12	47,100	10.19	.21	2.34
West Virginia	33	1	9	10	15,110	21.84	.66	5.96
Wisconsin	130	8	58	66	41,210	31.55	1.94	14.07
Wyoming	7	---	1	1	5,120	13.67	---	1.95
Unknown	---	---	---	---	---	---	---	---
Total	3,972	455	1,696	2,151	2,033,470	19.53	2.24	8.34

Note: Vehicle registration figures are for 1995 and were supplied by the Federal Highway Administration. Registration figures for Hawaii are ommitted because it does not have any reporting railroads.

TABLE 5. ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS, BY TYPE OF MOTOR VEHICLE, 1995

State	---Automobile--			-----Truck-----			-Truck Trailer-			------Bus------			---School Bus--			---Motorcycle--		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Alabama	116	12	56	31	2	18	16	1	9	---	---	---	---	---	---	1	---	---
Alaska	3	---	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Arizona	18	---	7	8	---	2	1	---	---	---	---	---	---	---	---	---	---	---
Arkansas	78	10	38	46	9	24	24	2	6	---	---	---	---	---	---	1	1	---
California	100	10	41	39	4	13	15	1	---	1	---	---	---	---	---	1	1	---
Colorado	35	10	21	10	---	6	8	---	3	---	---	---	---	---	---	---	---	---
Connecticut	4	1	2	1	---	---	1	---	2	---	---	---	---	---	---	---	---	---
Delaware	1	---	---	1	---	1	1	---	---	---	---	---	---	---	---	---	---	---
Dist. of Columbia	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Florida	49	6	10	19	6	4	9	1	---	1	4	1	1	---	29	1	---	1
Georgia	78	8	32	31	4	18	29	1	11	---	---	---	---	---	---	---	---	---
Idaho	15	4	9	11	3	5	6	---	1	---	---	---	---	---	---	---	---	---
Illinois	164	22	65	64	11	22	19	---	6	---	---	---	2	7	29	2	---	2
Indiana	169	16	59	55	8	19	22	1	10	---	---	---	---	---	---	1	---	1
Iowa	80	5	50	27	1	14	7	---	3	---	---	---	---	---	---	---	---	---
Kansas	54	8	27	24	4	13	11	1	1	---	---	---	---	---	---	---	---	---
Kentucky	56	5	29	21	1	8	7	---	4	---	---	---	---	---	---	---	---	---
Louisiana	119	12	64	62	9	21	19	4	11	---	---	---	---	---	---	1	1	---
Maine	5	---	2	1	---	1	---	---	---	---	---	---	---	---	---	---	---	---
Maryland	3	---	1	6	---	3	1	---	1	---	---	---	---	---	---	---	---	---
Massachusetts	8	1	---	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Michigan	80	2	40	35	2	23	4	---	---	---	---	---	---	---	---	1	---	1
Minnesota	78	11	17	37	2	10	13	2	---	---	---	---	---	---	---	---	---	---
Mississippi	91	24	34	38	4	9	16	1	3	---	---	---	---	---	---	---	---	---
Missouri	66	15	32	32	4	13	8	---	3	---	---	---	---	---	---	1	---	1
Montana	6	1	3	5	3	---	1	---	---	---	---	---	---	---	---	---	---	---
Nebraska	35	3	17	17	---	6	11	1	1	---	---	---	---	---	---	---	---	---
Nevada	2	1	---	2	---	2	1	---	---	---	---	---	---	---	---	---	---	---
New Hamshire	4	---	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
New Jersey	11	2	1	1	---	---	5	---	1	---	---	---	---	---	---	---	---	---
New Mexico	11	4	8	3	---	1	1	---	1	---	---	---	---	---	---	---	---	---
New York	25	3	8	8	1	2	5	---	---	---	---	---	---	---	---	---	---	---
North Carolina	78	4	22	25	3	9	15	1	6	---	---	---	---	---	---	1	1	---
North Dakota	15	3	8	12	2	5	2	---	---	---	---	---	---	---	---	---	---	---
Ohio	148	23	59	47	9	11	11	---	2	---	---	---	---	---	---	1	---	1
Oklahoma	66	11	41	28	3	17	11	1	3	---	---	---	---	---	---	---	---	---
Oregon	15	---	2	8	---	3	3	---	---	---	---	---	---	---	---	---	---	---
Pennsylvania	48	5	9	8	1	1	11	1	2	1	---	---	---	---	---	---	---	---
Rhode Island	1	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
South Carolina	62	5	19	18	---	5	18	---	37	---	---	---	---	---	---	---	---	---
South Dakota	24	1	8	9	2	3	5	---	3	---	---	---	---	---	---	1	1	---
Tennessee	58	8	24	16	2	5	13	---	1	---	---	---	---	---	---	---	---	---
Texas	235	27	131	145	13	67	28	2	4	---	---	---	---	---	---	---	---	---
Utah	16	6	9	10	1	4	4	---	1	---	---	---	---	---	---	---	---	---
Vermont	---	---	---	1	---	---	1	---	2	---	---	---	---	---	---	---	---	---
Virginia	41	4	7	10	1	4	5	---	1	---	---	---	---	---	---	---	---	---
Washington	28	---	6	12	1	3	8	---	2	---	---	---	---	---	---	---	---	---
West Virginia	18	---	6	10	1	3	5	---	---	---	---	---	---	---	---	---	---	---
Wisconsin	84	6	41	35	1	15	10	---	2	---	---	---	---	---	---	1	1	---
Wyoming	4	---	---	2	---	1	1	---	---	---	---	---	---	---	---	---	---	---
Unknown	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total	2,505	299	1,073	1,035	118	414	412	21	143	3	4	1	3	7	58	14	6	7

TABLE 6. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS, BY TYPE OF CONSIST, 1995

State	----Freight----			---Passenger---			-Yard Switching			-----Other-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Alabama	148	11	74	2	---	3	6	---	3	8	4	3
Alaska	1	---	3	1	---	2	1	---	---	---	---	---
Arizona	15	---	2	1	---	---	6	---	6	5	---	1
Arkansas	121	22	50	3	---	6	8	---	1	17	---	11
California	94	10	30	35	5	12	11	---	3	16	1	9
Colorado	38	10	17	3	---	---	6	---	5	6	---	8
Connecticut	2	1	---	3	---	4	---	---	---	1	---	---
Delaware	1	---	---	---	---	---	---	---	---	2	---	1
Dist. of Columbia	---	---	---	---	---	---	---	---	---	---	---	---
Florida	56	13	10	12	4	4	7	---	---	5	---	31
Georgia	109	11	51	4	2	---	14	---	3	11	---	7
Idaho	24	7	14	1	---	---	2	---	1	5	---	---
Illinois	161	21	73	49	18	38	18	1	4	23	---	9
Indiana	207	23	79	8	2	---	13	---	3	19	---	7
Iowa	81	6	53	---	---	---	14	---	3	19	---	11
Kansas	73	12	36	1	---	---	8	1	3	7	---	2
Kentucky	70	5	34	1	---	1	4	1	1	9	---	5
Louisiana	155	19	82	4	5	1	18	---	5	24	2	8
Maine	2	---	2	1	---	---	1	---	---	2	---	1
Maryland	8	---	4	---	---	---	2	---	1	---	---	---
Massachusetts	6	---	---	5	1	---	---	---	---	1	---	---
Michigan	101	4	53	2	---	---	9	---	3	8	---	8
Minnesota	91	13	22	---	---	---	15	1	2	22	1	3
Mississippi	114	28	40	8	1	3	11	---	2	12	---	1
Missouri	88	16	38	3	3	1	7	---	2	9	---	8
Montana	5	4	1	---	---	---	4	---	---	3	---	2
Nebraska	52	3	24	3	---	---	5	---	---	3	1	---
Nevada	5	1	2	---	---	---	---	---	---	---	---	---
New Hamshire	4	---	2	---	---	---	---	---	---	---	---	---
New Jersey	9	---	1	2	2	---	3	---	1	3	---	---
New Mexico	12	2	10	2	2	---	---	---	---	1	---	---
New York	24	2	5	11	2	5	2	---	---	1	---	---
North Carolina	86	7	31	12	2	1	10	---	1	11	---	4
North Dakota	22	5	10	---	---	---	4	---	1	3	---	2
Ohio	186	31	72	1	---	---	8	1	---	12	---	1
Oklahoma	94	15	59	---	---	---	5	---	1	6	---	1
Oregon	19	---	5	2	---	---	2	---	---	3	---	---
Pennsylvania	52	5	10	4	---	1	4	---	---	8	2	1
Rhode Island	1	---	1	---	---	---	---	---	---	---	---	---
South Carolina	79	4	24	3	1	32	10	---	4	6	---	1
South Dakota	30	4	11	---	---	---	4	---	2	5	---	1
Tennessee	65	10	21	---	---	---	16	---	9	6	---	---
Texas	316	36	156	10	3	5	47	3	19	35	---	22
Utah	21	4	13	2	3	---	5	---	---	2	---	1
Vermont	1	---	---	1	---	2	---	---	---	---	---	---
Virginia	39	4	7	3	1	---	2	---	---	12	---	5
Washington	31	---	7	2	---	1	7	---	---	8	1	3
West Virginia	24	1	5	3	---	1	1	---	---	5	---	3
Wisconsin	88	7	46	2	1	---	20	---	7	20	---	5
Wyoming	6	---	1	---	---	---	---	---	---	1	---	---
Unknown	---	---	---	---	---	---	---	---	---	---	---	---
Total	3,037	377	1,291	210	58	123	340	8	96	385	12	186

Note: "Other" includes mixed trains, work trains, light locomotives, single car or cut of cars

TABLE 7. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS, BY WARNING DEVICE, 1995

Railroad	Gates	Flashing Lights	Hwy Sig. Wigwags Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs Or Signals	Total
Alaska Railroad Corp.	---	2	---	---	1	---	---	---	3
Alton & Southern Railroad	---	1	---	---	---	---	---	---	1
Amtrak (Nat'l Railroad Passenger Corp.)	65	18	1	---	34	6	3	1	128
Atchison, Topeka And Santa Fe Railway Co.	61	39	1	1	76	4	---	---	182
Bangor And Aroostook Railroad	---	1	---	---	---	---	---	---	1
Belt Railway Co. of Chicago	4	---	---	1	---	---	---	---	5
Bessemer & Lake Erie Railroad Co.	---	---	---	---	---	---	---	---	---
Birmingham Southern Railroad Co.	---	---	---	---	---	---	---	---	---
Burlington Northern Railroad Co.	73	116	3	---	169	85	---	---	446
Chicago And North Western Transp.	45	21	4	---	62	12	---	2	146
Chicago, Central & Pacific Railroad Co.	1	11	8	---	9	---	---	---	29
Consolidated Rail Corp.	61	52	7	4	48	15	---	14	201
CSX Transp.	88	146	7	14	230	45	1	5	536
Dakota, Minnesota & Eastern Railroad	---	3	---	---	10	2	---	---	15
Delaware And Hudson Railroad Co.	1	3	---	---	3	---	---	---	7
Denver And Rio Grande Western Railroad Co.	7	4	---	2	7	1	---	---	21
Duluth, Missabe & Iron Range Railway Co.	---	---	---	---	1	---	---	---	1
Elgin, Joliet And Eastern Railway Co.	---	4	---	---	3	2	---	---	9
Florida East Coast Railway Co.	20	---	---	1	---	---	---	---	21
Gateway Western Railway	2	3	---	---	---	---	1	---	6
Grand Trunk Western Railroad Co.	17	14	---	---	4	10	---	---	45
Houston Belt & Terminal Railway Co.	3	---	---	---	---	---	---	---	3
Illinois Central Railroad Co.	5	37	4	---	34	3	---	3	86
Indiana Harbor Belt Railroad Co.	13	4	---	---	---	---	---	---	17
Kansas City Southern Railway Co.	9	52	4	1	119	1	---	---	186
Long Island Rail Road	7	---	---	1	---	---	---	---	8
Metro North Commuter Railroad Co.	3	1	---	---	---	---	---	---	4
Montana Rail Link	1	---	---	---	3	4	---	---	8
New Jersey Transit Rail Operations	2	1	---	---	---	---	---	---	3
Norfolk Southern Corp.	125	161	1	5	199	85	---	6	582
Northeast Illinois Regional Commuter Rail	10	2	---	---	---	1	---	---	13
Northern Indiana Commuter Trans.	---	2	1	---	2	1	---	---	6
Paducah & Louisville Railway Co.	---	1	---	---	2	---	---	---	3
Port Authority Trans Hudson	---	---	---	---	---	---	---	---	---
Port Terminal Railroad Assoc.	2	1	---	---	2	---	---	---	5
Soo Line Railroad Co.	11	19	2	1	20	12	---	1	66
Southeastern Pennsylvania Transp.	3	1	---	---	---	---	---	---	4
Southern Pacific Transp. Co.	84	28	6	3	66	2	---	---	189
Southern Pacific, Chicago-St. Louis Corp.	---	---	---	---	5	---	---	---	5
Springfield Terminal Railway Co.	1	3	---	---	---	---	---	---	4
St. Louis Southwestern Railway Co.	12	17	---	1	36	1	---	---	67
Terminal Railroad Assoc. of St. Louis	---	---	---	---	1	---	---	---	1
Texas Mexican Railway Co.	---	1	---	---	1	---	---	---	2
Union Pacific Railroad Co.	103	100	3	8	182	54	2	6	458
Union Railroad Company (Pittsburgh)	---	---	---	---	---	---	---	---	---
Wheeling & Lake Erie Railway Co.	---	3	---	---	15	---	---	---	18
Wisconsin Central Ltd.	6	31	1	---	26	13	---	---	77
All Other Railroads.....	36	98	13	10	161	32	3	1	354
Total.....	881	1,001	66	53	1,531	391	10	39	3,972

Note: "Special" are crossings protected by watchmen or members of train crew.

The totals on this table are slightly higher than those shown on other tables. The reporting rules require that when an Amtrak train is being operated by a crew of another railroad, both Amtrak and the operating carrier must make a report of an accident/incident. In all other tables these accidents/incidents are only counted once.

TABLE 7A. ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS, BY RAILROAD, 1995

Railroad	Motor Vehicle			Other Highway Users			Total		
	Acc/Inc	Killed	Injured	Acc/Inc	Killed	Injured	Acc/Inc	Killed	Injured
Alaska Railroad Corp.	3	---	5	---	---	---	3	---	5
Alton & Southern Railroad	1	---	---	---	---	---	1	---	---
Amtrak (Nat'l Railroad Passenger Corp.)	128	41	62	10	8	2	138	49	64
Atchison, Topeka And Santa Fe Railway Co.	182	36	76	11	2	6	193	38	82
Bangor And Aroostook Railroad	1	---	2	---	---	---	1	---	2
Belt Railway Co. of Chicago	5	---	1	---	---	---	5	---	1
Bessemer & Lake Erie Railroad Co.	---	---	---	---	---	---	---	---	---
Birmingham Southern Railroad Co.	---	---	---	---	---	---	---	---	---
Burlington Northern Railroad Co.	446	69	161	28	8	12	474	77	173
Chicago And North Western Transp.	146	15	85	7	6	2	153	21	87
Chicago, Central & Pacific Railroad Co.	29	---	18	2	---	---	31	---	18
Consolidated Rail Corp.	201	27	50	11	7	1	212	34	51
CSX Transp.	536	65	247	16	4	10	552	69	257
Dakota, Minnesota & Eastern Railroad	15	1	10	2	---	1	17	1	11
Delaware And Hudson Railroad Co.	7	---	2	---	---	---	7	---	2
Denver And Rio Grande Western Railroad Co.	21	1	15	---	---	---	21	1	15
Duluth, Missabe & Iron Range Railway Co.	1	---	---	---	---	---	1	---	---
Elgin, Joliet And Eastern Railway Co.	9	---	3	---	---	---	9	---	3
Florida East Coast Railway Co.	21	4	5	5	2	2	26	6	7
Gateway Western Railway	6	---	1	---	---	---	6	---	1
Grand Trunk Western Railroad Co.	45	3	24	2	---	1	47	3	25
Houston Belt & Terminal Railway Co.	3	1	2	---	---	---	3	1	2
Illinois Central Railroad Co.	86	7	38	2	---	2	88	7	40
Indiana Harbor Belt Railroad Co.	17	---	8	---	---	---	17	---	8
Kansas City Southern Railway Co.	186	12	91	2	1	---	188	13	91
Long Island Rail Road	8	1	2	3	3	---	11	4	2
Metro North Commuter Railroad Co.	4	---	5	---	---	---	4	---	5
Montana Rail Link	8	1	3	1	---	---	9	1	3
New Jersey Transit Rail Operations	3	2	---	3	2	---	6	4	---
Norfolk Southern Corp.	582	59	193	26	7	11	608	66	204
Northeast Illinois Regional Commuter Rail	13	3	1	2	1	1	15	4	2
Northern Indiana Commuter Trans.	6	---	---	---	---	---	6	---	---
Paducah & Louisville Railway Co.	3	---	1	1	---	---	4	---	1
Port Authority Trans Hudson	---	---	---	---	---	---	---	---	---
Port Terminal Railroad Assoc.	5	---	---	---	---	---	5	---	---
Soo Line Railroad Co.	66	3	28	7	2	1	73	5	29
Southeastern Pennsylvania Transp.	4	---	1	---	---	---	4	---	1
Southern Pacific Transp. Co.	189	19	85	12	5	2	201	24	87
Southern Pacific, Chicago-St. Louis Corp.	5	---	1	---	---	---	5	---	1
Springfield Terminal Railway Co.	4	1	---	1	---	---	5	1	---
St. Louis Southwestern Railway Co.	67	9	33	4	4	4	71	13	37
Terminal Railroad Assoc. of St. Louis	1	---	---	---	---	---	1	---	---
Texas Mexican Railway Co.	2	---	---	---	---	---	2	---	---
Union Pacific Railroad Co.	458	60	229	10	5	---	468	65	229
Union Railroad Company (Pittsburgh)	---	---	---	---	---	---	---	---	---
Wheeling & Lake Erie Railway Co.	18	---	10	1	---	---	19	---	10
Wisconsin Central Ltd.	77	5	45	1	---	---	78	5	45
All Other Railroads.....	354	10	153	11	2	---	365	12	153
Total.....	3,972	455	1,696	181	69	58	4,153	524	1,754

Note: A/I totals on this table are slightly higher than those shown on other tables. The reporting rules require that when an Amtrak train is being operated by a crew of another railroad, both Amtrak and the operating carrier must make a report of an accident/incident. In all other tables these accidents/incidents are only counted once.

TABLE 8. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS, AT WARNING DEVICE BY STATE, 1995

State	Gates	Flashing Lights	Hwy Sig. Wigwags Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs Or Signals	Total
Alabama	15	30	1	3	75	37	---	3	164
Alaska	---	2	---	---	1	---	---	---	3
Arizona	5	15	---	---	7	---	---	---	27
Arkansas	16	35	3	---	77	17	---	1	149
California	91	21	5	4	27	7	---	1	156
Colorado	11	10	3	---	23	6	---	---	53
Connecticut	1	3	---	---	1	1	---	---	6
Delaware	---	1	1	---	---	---	---	1	3
Dist. of Columbia	---	---	---	---	---	---	---	---	---
Florida	45	14	1	1	16	1	1	1	80
Georgia	48	15	---	3	44	27	---	1	138
Idaho	1	4	---	1	4	21	1	---	32
Illinois	107	67	4	1	62	5	---	5	251
Indiana	50	75	4	2	73	38	---	5	247
Iowa	16	25	7	1	54	11	---	---	114
Kansas	14	16	---	1	54	2	1	1	89
Kentucky	8	42	1	---	29	3	---	1	84
Louisiana	25	62	8	1	98	6	---	1	201
Maine	---	3	---	---	2	1	---	---	6
Maryland	2	1	---	2	4	---	---	1	10
Massachusetts	4	6	---	---	---	---	---	2	12
Michigan	24	34	3	---	39	19	1	---	120
Minnesota	17	26	---	2	38	44	---	1	128
Mississippi	6	52	2	3	69	12	---	1	145
Missouri	17	27	2	---	49	11	---	1	107
Montana	2	---	---	---	3	7	---	---	12
Nebraska	18	7	---	1	29	6	1	1	63
Nevada	2	---	---	---	2	1	---	---	5
New Hamshire	1	2	---	---	1	---	---	---	4
New Jersey	4	9	---	1	3	---	---	---	17
New Mexico	2	3	---	---	10	---	---	---	15
New York	25	3	1	1	5	2	1	---	38
North Carolina	35	18	---	1	59	3	---	3	119
North Dakota	4	2	---	1	13	9	---	---	29
Ohio	32	49	3	6	100	15	2	---	207
Oklahoma	6	38	2	---	54	5	---	---	105
Oregon	9	5	---	---	8	4	---	---	26
Pennsylvania	18	23	1	2	20	1	---	3	68
Rhode Island	---	1	---	---	---	---	---	---	1
South Carolina	12	30	---	---	47	9	---	---	98
South Dakota	---	7	---	---	19	13	---	---	39
Tennessee	13	36	4	---	30	4	---	---	87
Texas	115	93	2	7	171	20	---	---	408
Utah	10	4	---	2	8	3	2	1	30
Vermont	---	1	---	---	1	---	---	---	2
Virginia	15	18	1	5	14	3	---	---	56
Washington	13	8	1	1	24	1	---	---	48
West Virginia	8	8	1	---	13	---	---	3	33
Wisconsin	13	48	5	---	48	15	---	1	130
Wyoming	1	2	---	---	3	1	---	---	7
Unknown	---	---	---	---	---	---	---	---	---
Total	881	1,001	66	53	1,531	391	10	39	3,972

Note: "Special" are crossings protected by watchmen or members of train crew.

TABLE 9. ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS, BY HIGHWAY USER, 1995

Type Of Vehicle	----Acc/Inc---- No.	%	-----Killed---- No.	%	----Injured---- No.	%	Fatal Acc/Inc	Injury Acc/Inc
Automobile.....	2,505	60.32	299	57.06	1,073	61.17	231	736
Truck.....	1,035	24.92	118	22.52	414	23.60	98	318
Truck-trailer....	412	9.92	21	4.01	143	8.15	19	77
Bus.....	3	.07	4	.76	1	.06	1	---
School bus.....	3	.07	7	1.34	58	3.31	1	1
Motorcycle.....	14	.34	6	1.15	7	.40	6	7
Pedestrian.....	73	1.76	47	8.97	27	1.54	45	25
Other.....	108	2.60	22	4.20	31	1.77	18	22
Total.....	4,153	100.00	524	100.00	1,754	100.00	419	1,186

TABLE 10. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS, BY CIRCUMSTANCE, 1995

Circumstance	----Acc/Inc---- No.	%	-----Killed---- No.	%	----Injured---- No.	%	Fatal Acc/Inc	Injury Acc/Inc
Struck by consist	2,947	74.19	391	85.93	1,197	70.58	302	769
Ran into consist.	1,025	25.81	64	14.07	499	29.42	54	370
Total.....	3,972	100.00	455	100.00	1,696	100.00	356	1,139

TABLE 11. ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS BY TYPE OF VEHICLE AND NUMBER OF OCCUPANTS, 1995

Vehicle	# of A/I	# of Occupants	Occupants Per A/I	Killed	Killed Per A/I	Injured	Injured Per A/I	Vehicle Damage	Damage Per A/I
Automobile...	2,505	3,221	1.29	299	.12	1,051	.42	6,806,817	2,717
Truck.....	1,035	1,206	1.17	117	.11	387	.37	4,247,201	4,104
Truck-trailer	412	388	.94	21	.05	67	.16	4,720,707	11,458
Bus.....	3	6	2.00	4	1.33	1	.33	25,000	8,333
School bus...	3	65	21.67	7	2.33	58	19.33	40,000	13,333
Motorcycle...	14	13	.93	6	.43	7	.50	36,950	2,639
Total	3,972	4,899	1.23	454	.11	1,571	.40	15,876,675	3,997

TABLE 12. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS, BY CIRCUMSTANCE, 1995

Type Of Vehicle	-----Dawn------ A/I	Kld	Inj	------Day----- A/I	Kld	Inj	------Dusk----- A/I	Kld	Inj	------Dark----- A/I	Kld	Inj
RAIL CONSIST STRUCK HIGHWAY USER												
Automobile.....	46	3	12	993	154	453	74	14	38	702	89	239
Truck.....	21	1	5	522	80	194	26	8	7	186	11	67
Truck-trailer....	9	---	4	306	20	79	9	---	---	43	---	37
Bus.....	---	---	---	2	4	1	---	---	---	1	---	---
School bus.....	2	7	29	1	---	29	---	---	---	---	---	---
Motorcycle.....	---	---	---	4	---	3	---	---	---	---	---	---
Total.....	78	11	50	1,828	258	759	109	22	45	932	100	343
HIGHWAY USER STRUCK RAIL CONSIST												
Automobile.....	16	---	8	296	19	142	21	---	10	357	20	171
Truck.....	7	---	2	154	5	75	8	---	4	111	13	60
Truck-trailer....	---	---	---	29	---	12	1	---	1	15	1	10
Bus.....	---	---	---	---	---	---	---	---	---	---	---	---
School bus.....	---	---	---	---	---	---	---	---	---	---	---	---
Motorcycle.....	---	---	---	3	2	1	2	1	1	5	3	2
Total.....	23	---	10	482	26	230	32	1	16	488	37	243
GRAND TOTAL												
Automobile.....	62	3	20	1,289	173	595	95	14	48	1,059	109	410
Truck.....	28	1	7	676	85	269	34	8	11	297	24	127
Truck-trailer....	9	---	4	335	20	91	10	---	1	58	1	47
Bus.....	---	---	---	2	4	1	---	---	---	1	---	---
School bus.....	2	7	29	1	---	29	---	---	---	---	---	---
Motorcycle.....	---	---	---	7	2	4	2	1	1	5	3	2
Total.....	101	11	60	2,310	284	989	141	23	61	1,420	137	586

TABLE 13. ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS, BY TYPE OF PERSON, 1995

Type Of Vehicle	---EOD--- Kld	Inj	---ENOD-- Kld	Inj	---PSGR-- Kld	Inj	---NONT-- Kld	Inj	---TRES-- Kld	Inj	---CONT-- Kld	Inj	------Total----- Kld	Inj	A/I
RAIL CONSIST STRUCK HIGHWAY USER															
Automobile.....	---	18	---	---	---	---	189	614	71	109	---	1	260	742	1,815
Truck.....	---	20	---	---	---	2	81	210	19	41	---	---	100	273	755
Truck-trailer....	---	40	---	3	---	28	18	45	2	4	---	---	20	120	367
Bus.....	---	---	---	---	---	---	3	1	1	---	---	---	4	1	3
School bus.....	---	---	---	---	---	---	7	58	---	---	---	---	7	58	3
Motorcycle.....	---	---	---	---	---	---	---	2	---	1	---	---	---	3	4
Pedestrian.....	---	---	---	---	---	---	10	10	36	14	---	---	46	24	69
Other.....	1	6	---	---	---	---	11	20	9	4	---	---	21	30	102
Total.....	1	84	---	3	---	30	319	960	138	173	---	1	458	1,251	3,118
HIGHWAY USER STRUCK RAIL CONSIST															
Automobile.....	---	4	---	---	---	---	33	293	6	34	---	---	39	331	690
Truck.....	---	5	---	---	---	---	15	119	3	17	---	---	18	141	280
Truck-trailer....	---	5	---	---	---	---	1	13	---	5	---	---	1	23	45
Bus.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
School bus.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Motorcycle.....	---	---	---	---	---	---	6	3	---	1	---	---	6	4	10
Pedestrian.....	---	---	---	---	---	---	---	---	1	3	---	---	1	3	4
Other.....	---	---	---	---	---	---	1	1	---	---	---	---	1	1	6
Total.....	---	14	---	---	---	---	56	429	10	60	---	---	66	503	1,035
GRAND TOTAL															
Automobile.....	---	22	---	---	---	---	222	907	77	143	---	1	299	1,073	2,505
Truck.....	---	25	---	---	---	2	96	329	22	58	---	---	118	414	1,035
Truck-trailer....	---	45	---	3	---	28	19	58	2	9	---	---	21	143	412
Bus.....	---	---	---	---	---	---	3	1	1	---	---	---	4	1	3
School bus.....	---	---	---	---	---	---	7	58	---	---	---	---	7	58	3
Motorcycle.....	---	---	---	---	---	---	6	5	---	2	---	---	6	7	14
Pedestrian.....	---	---	---	---	---	---	10	10	37	17	---	---	47	27	73
Other.....	1	6	---	---	---	---	12	21	9	4	---	---	22	31	108
Total.....	1	98	---	3	---	30	375	1,389	148	233	---	1	524	1,754	4,153

Note: EOD = Employee on duty ENOD = Employee not on duty
PSGR = Passenger on train NONT = Nontrespasser
TRES = Trespasser CONT = Contractor employee

TABLE 14. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS, BY VEHICLE SPEED, CIRCUMSTANCE, AND VISIBILITY, 1995

Speed Of Vehicle	Dawn A/I	Dawn Kld	Dawn Inj	Day A/I	Day Kld	Day Inj	Dusk A/I	Dusk Kld	Dusk Inj	Dark A/I	Dark Kld	Dark Inj	Total A/I	Total Kld	Total Inj
RAIL CONSIST STRUCK HIGHWAY USER															
Standing	31	7	34	585	23	152	35	3	12	395	8	77	1,046	41	275
1-9	15	1	5	464	73	211	23	6	12	150	9	70	652	89	298
10-19	7	---	4	349	76	139	24	11	8	163	33	78	543	120	229
20-29	11	3	2	160	31	109	14	---	5	87	13	45	272	47	161
30-39	4	---	1	107	21	68	3	1	3	51	14	36	165	36	108
40-49	2	---	1	43	9	24	3	---	---	34	7	16	82	16	41
50-59	2	---	---	28	10	17	---	---	---	7	11	4	37	21	21
60 and over	1	---	1	2	---	1	---	---	---	3	1	---	6	1	2
Unknown	5	---	2	90	15	38	7	1	5	42	4	17	144	20	62
Total	78	11	50	1,828	258	759	109	22	45	932	100	343	2,947	391	1,197
HIGHWAY USER STRUCK RAIL CONSIST															
Standing	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1-9	8	---	3	95	---	20	7	---	1	81	---	18	191	---	42
10-19	3	---	2	95	1	36	12	---	5	112	2	43	222	3	86
20-29	1	---	---	91	4	54	2	---	---	71	3	36	165	7	90
30-39	8	---	3	66	1	24	1	---	---	88	7	36	163	8	63
40-49	---	---	---	55	7	45	4	---	4	55	6	49	114	13	98
50-59	2	---	1	35	7	25	1	---	2	29	10	25	67	17	53
60 and over	---	---	---	10	4	6	---	---	---	13	7	12	23	11	18
Unknown	1	---	1	35	2	20	5	1	4	39	2	24	80	5	49
Total	23	---	10	482	26	230	32	1	16	488	37	243	1,025	64	499
GRAND TOTAL															
Standing	31	7	34	585	23	152	35	3	12	395	8	77	1,046	41	275
1-9	23	1	8	559	73	231	30	6	13	231	9	88	843	89	340
10-19	10	---	6	444	77	175	36	11	13	275	35	121	765	123	315
20-29	12	3	2	251	35	163	16	---	5	158	16	81	437	54	251
30-39	12	---	4	173	22	92	4	1	3	139	21	72	328	44	171
40-49	2	---	1	98	16	69	7	---	4	89	13	65	196	29	139
50-59	4	---	1	63	17	42	1	---	2	36	21	29	104	38	74
60 and over	1	---	1	12	4	7	---	---	---	16	8	12	29	12	20
Unknown	6	---	3	125	17	58	12	2	9	81	6	41	224	25	111
Total	101	11	60	2,310	284	989	141	23	61	1,420	137	586	3,972	455	1,696

TABLE 15. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS, BY POSITION AND TYPE OF VEHICLE, 1995

Vehicle	Position On Crossing: Stalled On — A/I	Stalled On — Kld	Stalled On — Inj	Stopped On — A/I	Stopped On — Kld	Stopped On — Inj	Moving Over — A/I	Moving Over — Kld	Moving Over — Inj
Automobile	244	4	33	460	20	119	1,801	275	921
Truck	78	1	11	152	9	37	805	108	366
Truck-trailer	37	---	38	70	---	7	305	21	98
Bus	---	---	---	1	---	---	2	4	1
School bus	1	---	---	1	7	29	1	---	29
Motorcycle	1	---	---	1	---	1	12	6	6
Total	361	5	82	685	36	193	2,926	414	1,421

TABLE 16. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS, BY CONSIST SPEED, CIRCUMSTANCE, AND VISIBILITY, 1995

Speed Of Consist	Dawn			Day			Dusk			Dark			Total		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
RAIL CONSIST STRUCK HIGHWAY USER															
Standing	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1-9	12	---	---	285	---	42	26	---	5	179	3	46	502	3	93
10-19	10	---	3	243	2	51	15	---	1	139	---	39	407	2	94
20-29	16	1	4	282	7	155	15	2	8	159	6	80	472	16	247
30-39	13	---	4	329	33	174	20	8	13	166	18	61	528	59	252
40-49	16	---	6	404	102	218	18	4	11	168	46	56	606	152	291
50-59	5	---	3	182	81	78	11	7	6	75	14	21	273	102	108
60-69	4	8	30	72	20	32	1	1	---	32	8	4	109	37	66
70-79	2	2	---	30	13	9	3	---	1	14	5	36	49	20	46
80-89	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---
90 and over	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total	78	11	50	1,828	258	759	109	22	45	932	100	343	2,947	391	1,197
HIGHWAY USER STRUCK RAIL CONSIST															
Standing	2	---	---	12	---	5	---	---	---	84	1	45	98	1	50
1-9	4	---	1	119	2	34	9	---	3	145	5	60	277	7	98
10-19	6	---	3	81	---	38	6	---	6	94	15	49	187	15	96
20-29	---	---	---	83	1	49	6	1	2	61	2	34	150	4	85
30-39	4	---	2	73	6	49	4	---	1	37	4	21	118	10	73
40-49	4	---	2	78	8	37	5	---	2	43	5	25	130	13	66
50-59	2	---	1	24	5	9	1	---	2	13	2	5	40	7	17
60-69	---	---	---	6	2	5	---	---	---	8	2	2	14	4	7
70-79	1	---	1	5	---	2	1	---	---	3	1	2	10	1	5
80-89	---	---	---	1	2	2	---	---	---	---	---	---	1	2	2
90 and over	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total	23	---	10	482	26	230	32	1	16	488	37	243	1,025	64	499
GRAND TOTAL															
Standing	2	---	---	12	---	5	---	---	---	84	1	45	98	1	50
1-9	16	---	1	404	2	76	35	---	8	324	8	106	779	10	191
10-19	16	---	6	324	2	89	21	---	7	233	15	88	594	17	190
20-29	16	1	4	365	8	204	21	3	10	220	8	114	622	20	332
30-39	17	---	6	402	39	223	24	8	14	203	22	82	646	69	325
40-49	20	---	8	482	110	255	23	4	13	211	51	81	736	165	357
50-59	7	---	4	206	86	87	12	7	8	88	16	26	313	109	125
60-69	4	8	30	78	22	37	1	1	---	40	10	6	123	41	73
70-79	3	2	1	35	13	11	4	---	1	17	6	38	59	21	51
80-89	---	---	---	2	2	2	---	---	---	---	---	---	2	2	2
90 and over	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total	101	11	60	2,310	284	989	141	23	61	1,420	137	586	3,972	455	1,696

TABLE 17. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS BY RAILROAD EQUIPMENT INVOLVED, 1995

Type Consist	Consist Struck Vehicle	Vehicle Struck Consist	Part Of Consist Struck: Lead Unit	Quarter: 1	2	3	4	Unknown	Visibility: Dawn	Day	Dusk	Dark
Train (Units Pulling).	2,543	739	449	115	53	53	56	13	77	1,980	111	1,114
Train (Units Pushing).	166	77	41	5	6	10	15	---	11	109	12	111
Train (Standing).....	---	87	15	19	18	13	18	4	2	8	---	77
Cars (Moving).....	44	24	19	---	---	1	3	1	1	58	4	5
Cars (Standing).....	---	4	4	---	---	---	---	---	---	2	---	2
Light Locos (Moving)..	194	86	81	---	---	3	2	---	10	150	14	106
Light Locos (Standing)	---	7	6	---	---	---	1	---	---	2	---	5
Other.....	---	1	1	---	---	---	---	---	---	1	---	---
Total.....	2,947	1,025	616	139	77	80	95	18	101	2,310	141	1,420

Note: The "Lead" unit is the first unit to occupy the crossing.

TABLE 18. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS, BY TRAIN SPEED AND TYPE OF TRAIN, 1995

Speed Of Consist	Freight A/I	Freight Kld	Freight Inj	Passenger A/I	Passenger Kld	Passenger Inj	Yard Switching A/I	Yard Switching Kld	Yard Switching Inj	Other A/I	Other Kld	Other Inj	Total A/I	Total Kld	Total Inj
Standing.....	71	1	41	---	---	---	16	---	7	11	---	2	98	1	50
1-9.....	370	7	73	3	---	---	248	3	68	158	---	50	779	10	191
10-19.....	416	15	127	21	---	8	62	2	16	95	---	39	594	17	190
20-29.....	545	18	266	21	1	4	8	1	3	48	---	59	622	20	332
30-39.....	577	63	291	25	2	14	4	---	2	40	4	18	646	69	325
40-49.....	685	156	339	27	5	9	1	2	---	23	2	9	736	165	357
50-59.....	273	89	108	31	14	10	1	---	---	8	6	7	313	109	125
60-69.....	90	27	38	31	14	33	---	---	---	2	---	2	123	41	73
70-79.....	10	1	8	49	20	43	---	---	---	---	---	---	59	21	51
80-89.....	---	---	---	2	2	2	---	---	---	---	---	---	2	2	2
90 and over.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	3,037	377	1,291	210	58	123	340	8	96	385	12	186	3,972	455	1,696

Note: "Other" includes mixed trains, work trains, light locomotives, single car or cut of cars.

TABLE 19. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS, BY LENGTH OF CONSIST, 1995

Number Of Cars	Freight A/I	Freight Kld	Freight Inj	Passenger A/I	Passenger Kld	Passenger Inj	Yard Switching A/I	Yard Switching Kld	Yard Switching Inj	Other A/I	Other Kld	Other Inj	Total A/I	Total Kld	Total Inj
1-9.....	406	38	140	156	40	78	195	5	50	87	5	44	844	88	312
10-19.....	335	29	147	40	17	39	65	1	21	4	---	---	444	47	207
20-29.....	279	40	106	---	---	---	34	1	13	5	---	1	318	41	120
30-39.....	291	47	135	---	---	---	19	---	4	1	---	---	311	47	139
40-49.....	212	28	93	4	1	1	10	---	4	---	---	---	226	29	98
50-59.....	225	33	100	---	---	---	6	---	---	2	---	---	233	33	100
60-69.....	241	34	110	---	---	---	3	---	3	1	---	1	245	34	114
70-79.....	231	32	106	---	---	---	1	---	---	---	---	---	232	32	106
80-89.....	184	22	87	---	---	---	3	---	1	---	---	---	187	22	88
90-99.....	170	19	73	---	---	---	1	---	---	---	---	---	171	19	73
100-109.....	158	20	67	---	---	---	1	1	---	---	---	---	159	21	67
110-119.....	176	27	81	---	---	---	1	---	---	---	---	---	177	27	81
120-129.....	57	3	20	---	---	---	---	---	---	---	---	---	57	3	20
130-139.....	24	1	8	---	---	---	---	---	---	---	---	---	24	1	8
140-149.....	15	2	2	---	---	---	---	---	---	---	---	---	15	2	2
150 And over.....	17	2	11	---	---	---	---	---	---	---	---	---	17	2	11
Locomotives only.	16	---	5	10	---	5	1	---	---	285	7	140	312	7	150
Total.....	3,037	377	1,291	210	58	123	340	8	96	385	12	186	3,972	455	1,696

Note: "Other" includes mixed trains, work trains, light locomotives, single car or cut of cars

TABLE 20. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS, BY LENGTH OF CONSIST AND VISIBILITY, 1995

Number Of Cars	Dawn A/I	Dawn Kld	Dawn Inj	Day A/I	Day Kld	Day Inj	Dusk A/I	Dusk Kld	Dusk Inj	Dark A/I	Dark Kld	Dark Inj	Total A/I	Total Kld	Total Inj
RAIL CONSIST STRUCK HIGHWAY USER															
1-9	14	7	33	423	46	129	24	5	7	155	21	47	616	79	216
10-19	9	2	2	191	21	68	18	2	9	108	11	71	326	36	150
20-29	3	---	---	157	29	64	3	---	1	63	3	20	226	32	85
30-39	6	1	1	162	33	81	6	---	6	70	9	29	244	43	117
40-49	6	---	2	98	18	43	10	4	3	54	4	19	168	26	67
50-59	3	---	1	121	24	47	3	---	---	63	3	21	190	27	69
60-69	5	---	2	111	25	64	3	1	2	69	6	20	188	32	88
70-79	4	---	1	95	14	43	11	4	4	55	7	17	165	25	65
80-89	3	1	---	77	8	38	8	4	5	51	6	16	139	19	59
90-99	5	---	3	73	11	33	2	---	2	47	3	14	127	14	52
100-109	5	---	2	65	14	25	4	1	---	44	3	20	118	18	47
110-119	3	---	---	90	9	42	4	1	1	42	16	14	139	26	57
120-129	2	---	---	25	1	6	1	---	3	13	1	3	41	2	12
130-139	---	---	---	11	---	6	---	---	---	12	1	2	23	1	8
140-149	1	---	---	5	1	1	---	---	---	8	1	1	14	2	2
150 And over	1	---	---	6	---	2	2	---	1	2	2	---	11	2	3
Locomotives only	8	---	3	118	4	67	10	---	1	76	3	29	212	7	100
Total	78	11	50	1,828	258	759	109	22	45	932	100	343	2,947	391	1,197
HIGHWAY USER STRUCK RAIL CONSIST															
1-9	3	---	---	136	4	56	7	---	7	82	5	33	228	9	96
10-19	2	---	1	53	6	25	2	---	2	61	5	29	118	11	57
20-29	2	---	2	42	4	15	2	---	---	46	5	18	92	9	35
30-39	4	---	3	31	2	11	2	1	1	30	1	7	67	4	22
40-49	1	---	---	26	1	14	1	---	1	30	2	16	58	3	31
50-59	---	---	---	18	2	18	2	---	---	23	4	13	43	6	31
60-69	1	---	1	23	2	11	1	---	---	32	---	14	57	2	26
70-79	---	---	---	33	3	15	2	---	---	32	4	26	67	7	41
80-89	1	---	---	25	2	15	4	---	1	18	1	13	48	3	29
90-99	4	---	2	17	---	10	---	---	---	23	5	9	44	5	21
100-109	1	---	---	13	---	5	2	---	1	25	3	14	41	3	20
110-119	1	---	---	11	---	13	1	---	---	25	1	11	38	1	24
120-129	---	---	---	4	---	4	---	---	---	12	1	4	16	1	8
130-139	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---
140-149	---	---	---	---	---	---	---	---	---	1	---	---	1	---	---
150 And over	---	---	---	1	---	---	1	---	1	4	---	7	6	---	8
Locomotives only	3	---	1	48	---	18	5	---	2	44	---	29	100	---	50
Total	23	---	10	482	26	230	32	1	16	488	37	243	1,025	64	499
GRAND TOTAL															
1-9	17	7	33	559	50	185	31	5	14	237	26	80	844	88	312
10-19	11	2	3	244	27	93	20	2	11	169	16	100	444	47	207
20-29	5	---	2	199	33	79	5	---	1	109	8	38	318	41	120
30-39	10	1	4	193	35	92	8	1	7	100	10	36	311	47	139
40-49	7	---	2	124	19	57	11	4	4	84	6	35	226	29	98
50-59	3	---	1	139	26	65	5	---	---	86	7	34	233	33	100
60-69	6	---	3	134	27	75	4	1	2	101	6	34	245	34	114
70-79	4	---	1	128	17	58	13	4	4	87	11	43	232	32	106
80-89	4	1	---	102	10	53	12	4	6	69	7	29	187	22	88
90-99	9	---	5	90	11	43	2	---	2	70	8	23	171	19	73
100-109	6	---	2	78	14	30	6	1	1	69	6	34	159	21	67
110-119	4	---	---	101	9	55	5	1	1	67	17	25	177	27	81
120-129	2	---	---	29	1	10	1	---	3	25	2	7	57	3	20
130-139	---	---	---	12	---	6	---	---	---	12	1	2	24	1	8
140-149	1	---	---	5	1	1	---	---	---	9	1	1	15	2	2
150 And over	1	---	---	7	---	2	3	---	2	6	2	7	17	2	11
Locomotives only	11	---	4	166	4	85	15	---	3	120	3	58	312	7	150
Total	101	11	60	2,310	284	989	141	23	61	1,420	137	586	3,972	455	1,696

TABLE 21. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS, BY TYPE AND CLASS OF TRACK, 1995

Track Class	Main			Yard			Siding			Industry			Unknown			Total		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
1.....	274	5	74	164	2	42	21	---	7	152	---	42	---	---	---	611	7	165
2.....	596	20	262	31	---	13	6	---	4	16	1	6	---	---	---	649	21	285
3.....	989	90	467	9	---	2	7	---	3	12	---	2	---	---	---	1,017	90	474
4.....	1,444	301	680	4	---	4	2	---	1	6	---	1	---	---	---	1,456	301	686
5.....	165	32	68	---	---	---	---	---	---	---	---	---	---	---	---	165	32	68
6.....	4	1	3	---	---	---	---	---	---	---	---	---	---	---	---	4	1	3
Unknown.....	47	3	12	13	---	1	2	---	---	8	---	2	---	---	---	70	3	15
Total....	3,519	452	1,566	221	2	62	38	---	15	194	1	53	---	---	---	3,972	455	1,696

TABLE 22. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS, BY WARNING DEVICE AND MOTORIST ACTION, 1995

Warning Device	--Drove Around-Or Thru Gate--			--Stopped And--Then Proceeded			-Did Not Stop--			-Other-			-Unknown-			-Total-		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Gates.....	493	74	200	2	---	---	13	---	8	370	20	66	3	---	1	881	94	275
Cantilever flshrs	---	---	---	28	2	10	227	20	128	50	---	15	2	---	1	307	22	154
Standard flashers	---	---	---	43	10	15	501	81	240	140	8	23	10	---	4	694	99	282
Hwy Sig,W W,Bells	---	---	---	6	---	---	42	3	19	18	---	4	---	---	---	66	3	23
Special Devices..	---	---	---	5	---	---	42	2	15	5	---	---	1	---	---	53	2	15
Crossbucks.....	---	---	---	66	8	26	1,117	169	609	335	14	122	13	---	5	1,531	191	762
Stopsigns.....	---	---	---	39	8	14	241	31	129	107	4	33	4	---	1	391	43	177
Other Signs.....	---	---	---	---	---	---	6	---	2	4	1	---	---	---	---	10	1	2
No Signs Or Signl	---	---	---	---	---	---	23	---	6	16	---	---	---	---	---	39	---	6
Total.....	493	74	200	189	28	65	2,212	306	1,156	1,045	47	263	33	---	12	3,972	455	1,696

Note: "Special" are crossings protected by watchmen or members of train crew.
"Hwy Sig" = Highway signals, W W = Wigwags.

TABLE 23. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS BY OPERATIONAL STATUS OF WARNING DEVICE, CIRCUMSTANCE, AND VISIBILITY, 1995

Warning Device	-Device Working- Yes	No	N/A	Highway User: Struck By Consist- Dawn	Day	Dusk	Dark	Ran Into Consist- Dawn	Day	Dusk	Dark
Gates.....	857	3	21	26	343	25	341	3	62	5	76
Cantilever flshrs	302	1	4	2	131	3	70	3	56	2	40
Standard flashers	682	3	9	13	311	16	139	3	103	5	104
Hwy Sig,W W,Bells	66	---	---	1	20	1	19	1	16	1	7
Special Devices..	---	---	53	---	9	3	12	2	7	---	20
Crossbucks.....	---	---	1,531	28	760	52	273	8	188	17	205
Stopsigns.....	---	---	391	5	241	5	62	3	46	1	28
Other Signs.....	---	---	10	---	2	---	4	---	2	---	2
No Signs Or Signl	---	---	39	3	11	4	12	---	2	1	6
Total.....	1,907	7	2,058	78	1,828	109	932	23	482	32	488

Note: If a rail consist is intentionally grounded to prevent activation of the warning device, these are reported as "N/A."

TABLE 24. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS, DURING DUSK AND DARK HOURS BY ILLUMINATION OF CROSSING AND CIRCUMSTANCE, 1995

	Struck By Consist A/I	Kld	Inj	Ran Into Consist A/I	Kld	Inj	Total A/I	Kld	Inj
Lighted.....	612	67	232	233	10	107	845	77	339
Not Lighted.....	1,760	263	758	601	46	307	2,361	309	1,065
Not Reported.....	568	61	206	186	7	81	754	68	287
Total.....	2,947	391	1,197	1,025	64	499	3,972	455	1,696

TABLE 25. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS, BY CROSSING PROTECTION, 1995

Warning Device	Dawn			Day			Dusk			Dark			Total		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
RAIL CONSIST STRUCK HIGHWAY USER															
Automatic, Both Sides.....	41	11	42	785	92	251	43	6	10	556	73	189	1,425	182	492
Automatic, Side Of Approach.	1	---	---	19	2	4	2	1	1	12	---	---	34	3	5
Automatic, Opposite Side....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Automatic, Side Not Reported	---	---	---	1	---	---	---	---	---	1	---	1	2	---	1
Manual, Both Sides.....	---	---	---	9	---	2	2	---	---	10	---	2	21	---	4
Manual, Side Of Approach....	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---
Manual, Opposite Side.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Manual, Side Not Reported...	---	---	---	---	---	---	---	---	---	2	---	---	2	---	---
Other, Both Sides.....	32	---	8	967	159	488	53	15	30	326	24	144	1,378	198	670
Other, Side Of Approach.....	1	---	---	28	3	6	4	---	3	10	3	5	43	6	14
Other, Opposite Side.....	---	---	---	4	---	4	---	---	---	2	---	2	6	---	6
Other, Side Not Reported....	---	---	---	4	2	---	---	---	---	1	---	---	5	2	---
No Signs Or Signals.....	3	---	---	11	---	4	4	---	1	12	---	---	30	---	5
Total.....	78	11	50	1,828	258	759	109	22	45	932	100	343	2,947	391	1,197
HIGHWAY USER STRUCK RAIL CONSIST															
Automatic, Both Sides.....	10	---	5	229	14	124	13	---	10	223	19	94	475	33	233
Automatic, Side Of Approach.	---	---	---	6	---	---	---	---	---	2	---	1	8	---	1
Automatic, Opposite Side....	---	---	---	2	---	1	---	---	---	1	---	---	3	---	1
Automatic, Side Not Reported	---	---	---	---	---	---	---	---	---	1	---	1	1	---	1
Manual, Both Sides.....	1	---	---	5	2	1	---	---	---	18	---	8	24	2	9
Manual, Side Of Approach....	---	---	---	---	---	---	---	---	---	1	---	1	1	---	1
Manual, Opposite Side.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Manual, Side Not Reported...	1	---	---	2	---	1	---	---	---	1	---	---	4	---	1
Other, Both Sides.....	11	---	5	224	10	98	17	1	5	225	17	134	477	28	242
Other, Side Of Approach.....	---	---	---	10	---	4	---	---	---	8	---	4	18	---	8
Other, Opposite Side.....	---	---	---	1	---	---	1	---	---	1	---	---	3	---	---
Other, Side Not Reported....	---	---	---	1	---	1	---	---	---	1	1	---	2	1	1
No Signs Or Signals.....	---	---	---	2	---	---	1	---	1	6	---	---	9	---	1
Total.....	23	---	10	482	26	230	32	1	16	488	37	243	1,025	64	499
GRAND TOTAL															
Automatic, Both Sides.....	51	11	47	1,014	106	375	56	6	20	779	92	283	1,900	215	725
Automatic, Side Of Approach.	1	---	---	25	2	4	2	1	1	14	---	1	42	3	6
Automatic, Opposite Side....	---	---	---	2	---	1	---	---	---	1	---	---	3	---	1
Automatic, Side Not Reported	---	---	---	1	---	---	---	---	---	2	---	2	3	---	2
Manual, Both Sides.....	1	---	---	14	2	3	2	---	---	28	---	10	45	2	13
Manual, Side Of Approach....	---	---	---	---	---	---	1	---	---	1	---	1	2	---	1
Manual, Opposite Side.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Manual, Side Not Reported...	1	---	---	2	---	1	---	---	---	3	---	---	6	---	1
Other, Both Sides.....	43	---	13	1,191	169	586	70	16	35	551	41	278	1,855	226	912
Other, Side Of Approach.....	1	---	---	38	3	10	4	---	3	18	3	9	61	6	22
Other, Opposite Side.....	---	---	---	5	---	4	1	---	---	3	---	2	9	---	6
Other, Side Not Reported....	---	---	---	5	2	1	---	---	---	2	1	---	7	3	1
No Signs Or Signals.....	3	---	---	13	---	4	5	---	2	18	---	---	39	---	6
Total.....	101	11	60	2,310	284	989	141	23	61	1,420	137	586	3,972	455	1,696

Note: Automatic devices include gates, flashing lights, and other devices which are activated by the approach of a rail consist. Manual devices include "Watchmen" and "Flagged by crew". "Other" devices include crossbucks, stop signs, etc.

TABLE 26. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS, BY VISIBILITY AND CIRCUMSTANCE, 1995

Visibilty	Struck By Consist A/I	Kld	Inj	Ran Into Consist A/I	Kld	Inj	-----Total----- A/I	Kld	Inj
Dawn.....	78	11	50	23	---	10	101	11	60
Day.....	1,828	258	759	482	26	230	2,310	284	989
Dusk.....	109	22	45	32	1	16	141	23	61
Dark.....	932	100	343	488	37	243	1,420	137	586
Total.....	2,947	391	1,197	1,025	64	499	3,972	455	1,696

TABLE 27. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS, BY TEMPERATURE AND VISIBILITY, 1995

Temperature	----Struck By Consist---- Dawn	Day	Dusk	Dark	----Ran Into Consist----- Dawn	Day	Dusk	Dark	----------Total---------- Dawn	Day	Dusk	Dark
Over 100.....	---	4	---	---	---	2	---	---	---	6	---	---
80 To 100.....	2	535	14	78	1	128	6	28	3	663	20	106
60 To 79.....	30	634	38	279	7	155	10	140	37	789	48	419
40 To 59.....	27	346	31	316	6	93	9	153	33	439	40	469
20 To 39.....	16	276	23	207	8	78	5	121	24	354	28	328
0 To 19.....	3	33	3	52	1	26	2	46	4	59	5	98
-20 To -1.....	---	---	---	---	---	---	---	---	---	---	---	---
Under -20.....	---	---	---	---	---	---	---	---	---	---	---	---
Not Reported.....	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	78	1,828	109	932	23	482	32	488	101	2,310	141	1,420

TABLE 28. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS, BY TIME OF DAY, 1995

TIME	Struck By Consist A/I	Kld	Inj	Ran Into Consist A/I	Kld	Inj	-----Total----- A/I	Kld	Inj
MID TO 12:59 AM..	84	14	34	45	5	26	129	19	60
1 TO 1:59 AM...	69	12	20	52	3	37	121	15	57
2 TO 2:59 AM...	72	7	49	44	1	22	116	8	71
3 TO 3:59 AM...	44	3	11	32	5	18	76	8	29
4 TO 4:59 AM...	47	2	15	25	2	8	72	4	23
5 TO 5:59 AM...	49	6	15	26	1	7	75	7	22
6 TO 6:59 AM...	83	4	27	39	2	16	122	6	43
7 TO 7:59 AM...	135	22	78	37	1	22	172	23	100
8 TO 8:59 AM...	136	27	79	27	1	8	163	28	87
9 TO 9:59 AM...	158	19	44	39	---	23	197	19	67
10 TO 10:59 AM.	142	11	57	41	1	14	183	12	71
11 TO 11:59 AM.	162	26	64	58	4	27	220	30	91
NOON TO 12:59 PM.	175	17	57	40	1	16	215	18	73
1 TO 1:59 PM...	165	19	71	35	1	17	200	20	88
2 TO 2:59 PM...	181	23	83	46	3	23	227	26	106
3 TO 3:59 PM...	177	40	81	53	2	18	230	42	99
4 TO 4:59 PM...	186	28	72	39	4	31	225	32	103
5 TO 5:59 PM...	202	27	78	51	8	24	253	35	102
6 TO 6:59 PM...	145	25	54	55	2	28	200	27	82
7 TO 7:59 PM...	109	12	41	51	3	26	160	15	67
8 TO 8:59 PM...	118	9	60	51	6	13	169	15	73
9 TO 9:59 PM...	94	15	28	50	4	29	144	19	57
10 TO 10:59 PM.	116	9	49	41	1	23	157	10	72
11 TO 11:59 PM.	98	14	30	48	3	23	146	17	53
Unknown.....	---	---	---	---	---	---	---	---	---
Total.....	2,947	391	1,197	1,025	64	499	3,972	455	1,696

TABLE 29. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS, BY MONTH AND CIRCUMSTANCE, 1995

Month	Struck By Consist A/I	Kld	Inj	Ran Into Consist A/I	Kld	Inj	-----Total----- A/I	Kld	Inj
January.....	288	29	113	129	11	59	417	40	172
February.....	241	31	119	102	10	43	343	41	162
March.....	241	36	101	82	5	51	323	41	152
April.....	208	39	66	65	4	29	273	43	95
May.....	258	32	111	59	1	35	317	33	146
June.....	224	40	83	65	3	30	289	43	113
July.....	211	17	87	72	5	36	283	22	123
August.....	263	41	114	84	7	37	347	48	151
September.....	250	28	73	69	3	40	319	31	113
October.....	257	37	119	96	3	37	353	40	156
November.....	229	26	109	90	5	52	319	31	161
December.....	277	35	102	112	7	50	389	42	152
Total.....	2,947	391	1,197	1,025	64	499	3,972	455	1,696

TABLE 30. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS, BY WEATHER CIRCUMSTANCE AND VISIBILITY, 1995

Weather	----Struck By Consist---- Dawn	Day	Dusk	Dark	----Ran Into Consist----- Dawn	Day	Dusk	Dark	----------Total---------- Dawn	Day	Dusk	Dark
Clear.....	49	1,332	76	577	11	315	16	268	60	1,647	92	845
Cloudy.....	15	364	23	196	9	103	9	100	24	467	32	296
Rain.....	8	85	6	105	1	40	6	66	9	125	12	171
Fog.....	4	8	---	22	2	8	---	31	6	16	---	53
Sleet.....	---	3	---	5	---	---	---	3	---	3	---	8
Snow.....	2	36	4	27	---	16	1	20	2	52	5	47
Not Reported.....	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	78	1,828	109	932	23	482	32	488	101	2,310	141	1,420

TABLE 31. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS BY OBSTRUCTION OF MOTORIST VIEW, CIRCUMSTANCE AND VISIBILITY, 1995

Type Obstruction	----Struck By Consist---- Dawn	Day	Dusk	Dark	----Ran Into Consist----- Dawn	Day	Dusk	Dark	----------Total---------- Dawn	Day	Dusk	Dark
Permanent structure...	2	43	1	12	---	17	---	6	2	60	1	18
Standing RR Equipment.	---	11	---	5	---	---	1	1	---	11	1	6
Passing Train.....	---	10	---	2	---	2	---	4	---	12	---	6
Topography.....	---	17	---	9	---	4	---	---	---	21	---	9
Vegetation.....	---	24	4	6	1	8	1	1	1	32	5	7
Highway Vehicle.....	---	1	2	4	---	2	---	---	---	3	2	4
Other.....	---	13	---	3	1	3	2	5	1	16	2	8
Not Obstructed.....	76	1,709	102	891	21	446	28	471	97	2,155	130	1,362
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	78	1,828	109	932	23	482	32	488	101	2,310	141	1,420

TABLE 32. (MV) ACCIDENTS/INCIDENTS AT PUBLIC HIGHWAY-RAIL CROSSINGS, BY MOTORIST ACTION AND TYPE OF VEHICLE, 1995

Type Of Vehicle	Struck By Second Train Yes	No	Unknown	Passed Standing Vehicle Yes	No	Unknown
Automobile.....	34	2,441	30	79	2,239	187
Truck.....	12	1,011	12	33	926	76
Truck-trailer....	9	397	6	7	386	19
Bus.....	---	3	---	---	3	---
School bus.....	---	3	---	---	3	---
Motorcycle.....	---	13	1	1	11	2
Total.....	55	3,868	49	120	3,568	284

(G R A P H S)

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FIGURE 26. CROSSINGS BY TYPE OF DEVELOPMENT

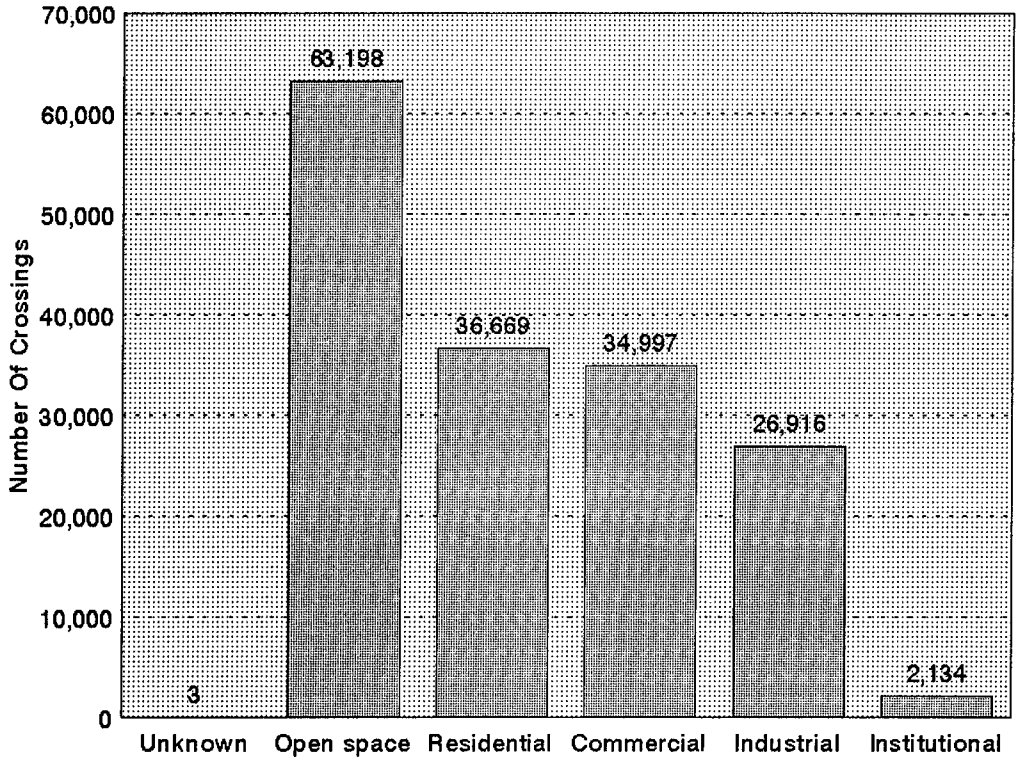


FIGURE 27. CROSSINGS BY NUMBER OF TRACKS

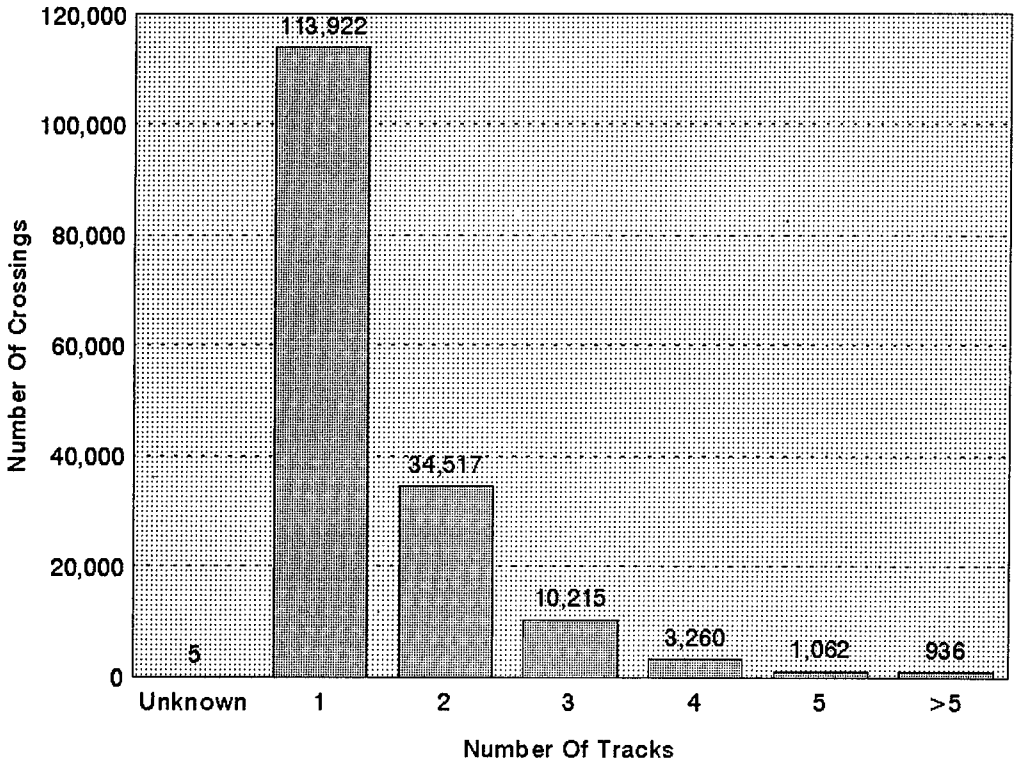


FIGURE 28. CROSSINGS BY NUMBER OF LANES

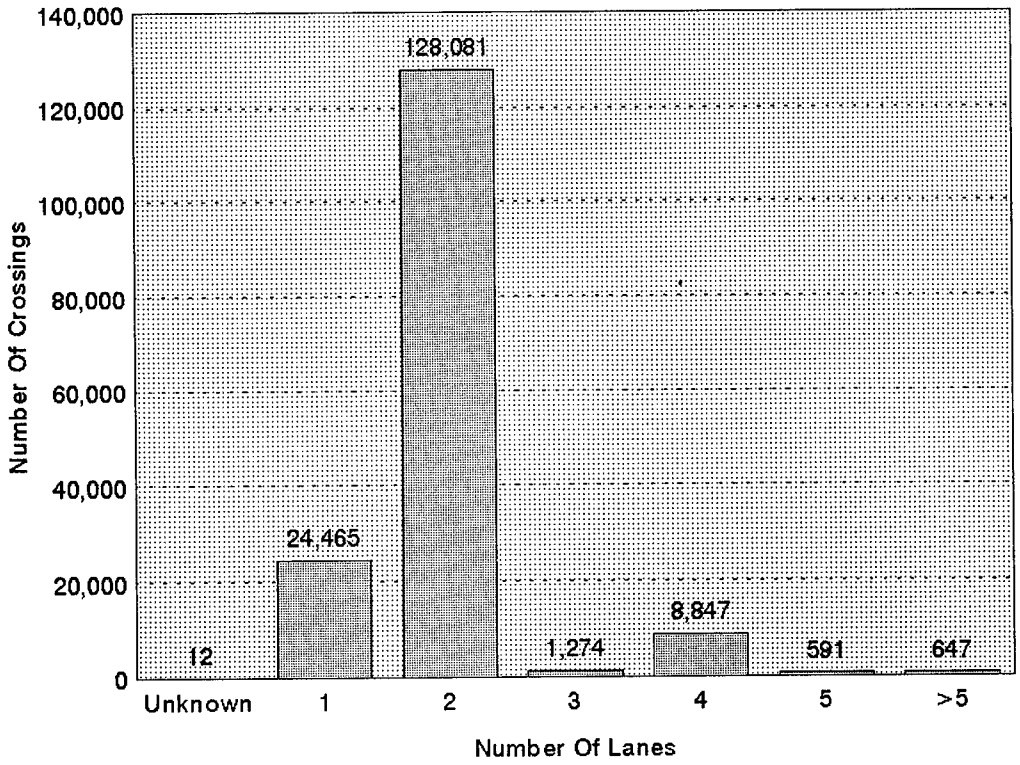
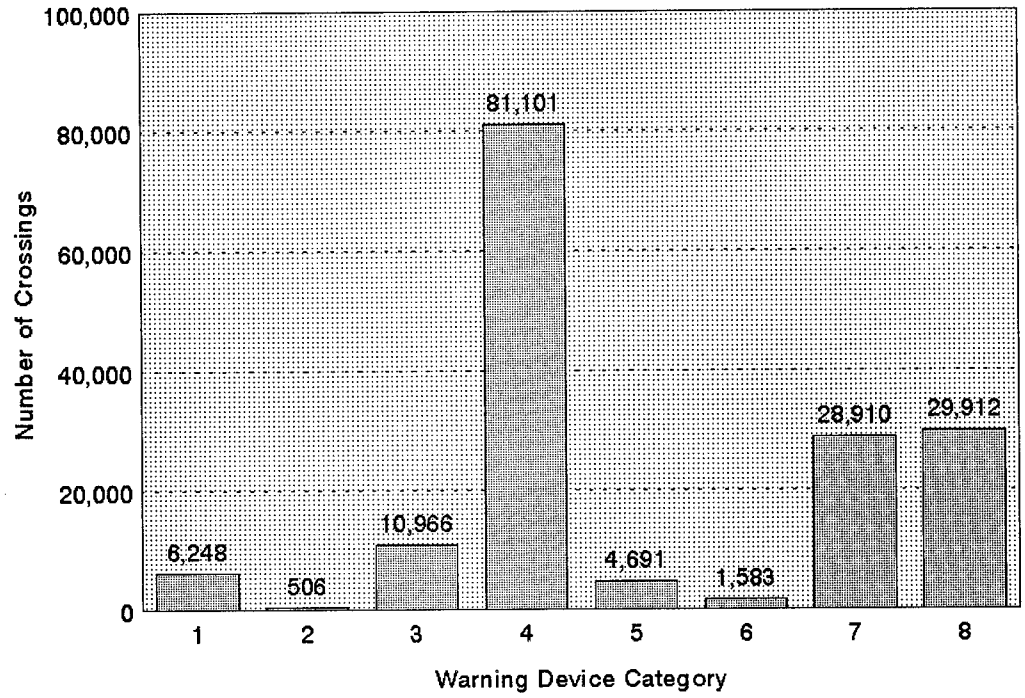


FIGURE 29. CROSSINGS BY WARNING DEVICE CATEGORY



1 = No signs or signals; 2 = Other signs; 3 = Stop Signs; 4 = Crossbucks; 5 = Special warning; 6 = Highway signals, wigwags, bells; 7 = Flashing lights; 8 = Gates

FIGURE 30. CROSSINGS BY SMALLEST CROSSING ANGLE

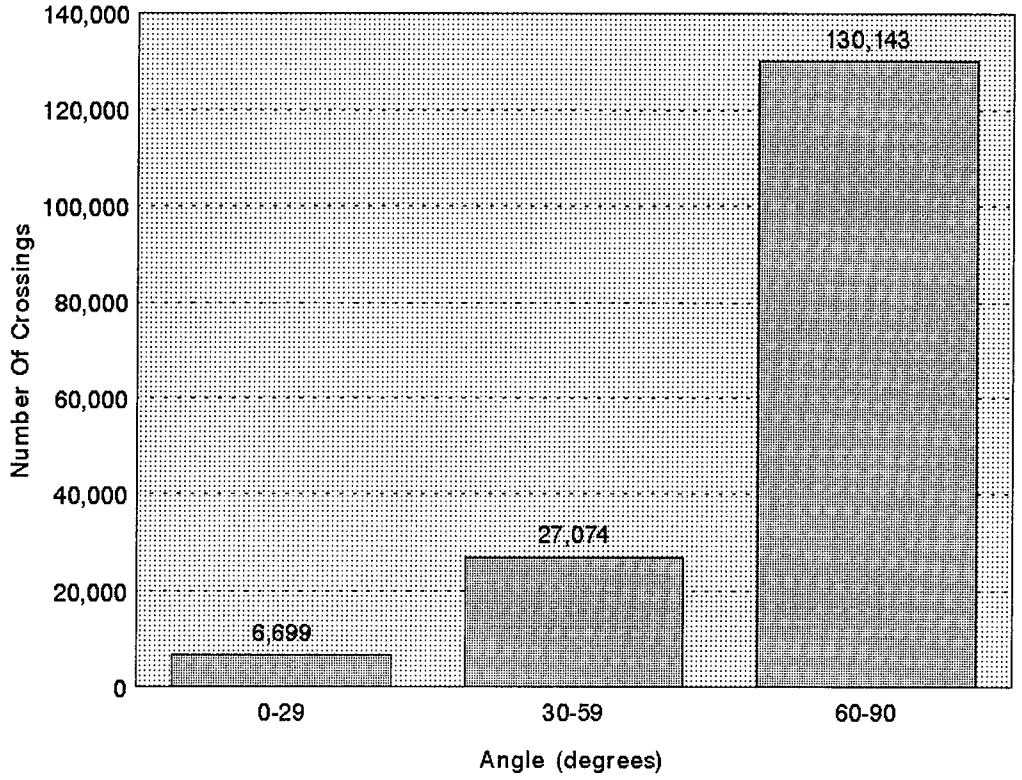
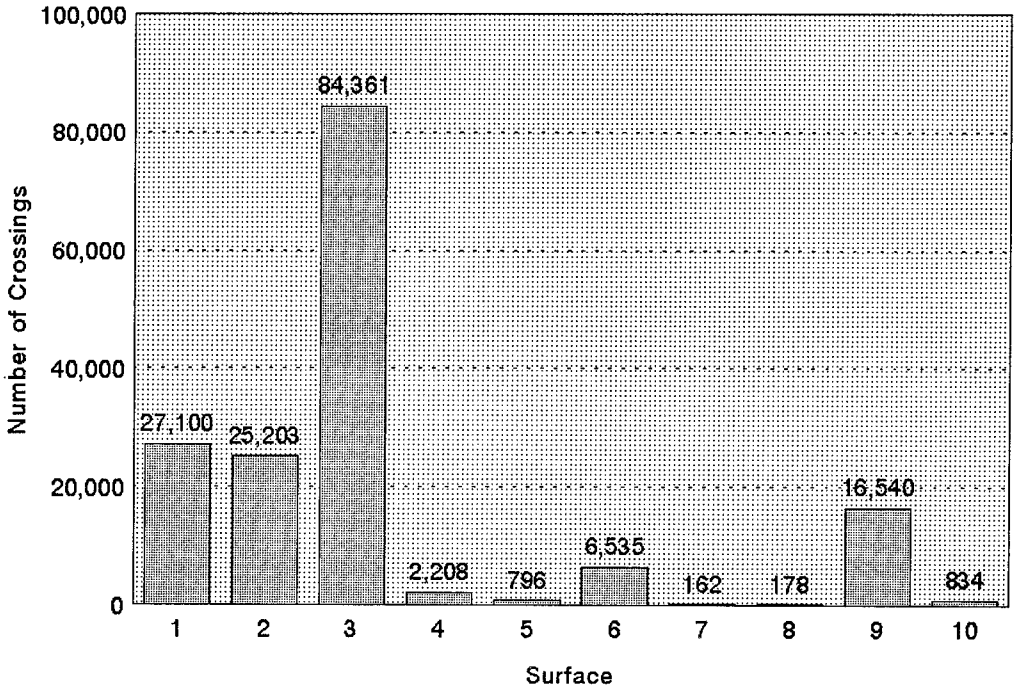
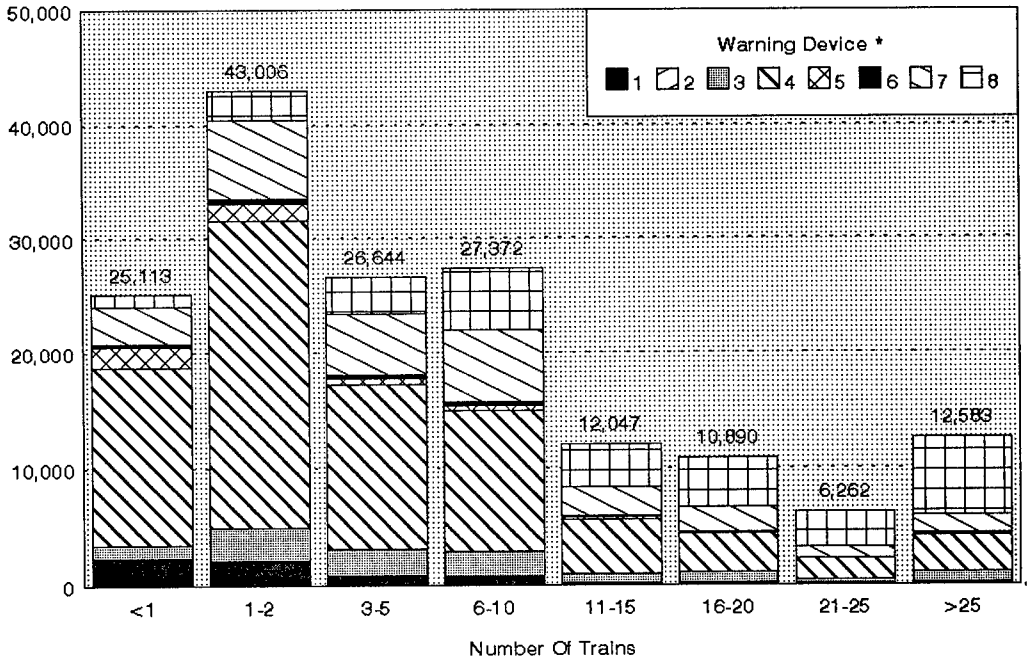


FIGURE 31. CROSSINGS BY CROSSING SURFACE



1 = Section timber; 2 = Full wood plank; 3 = Asphalt; 4 = Concrete slab; 5 = Concrete pavement; 6 = Rubber; 7 = Metal sections; 8 = Other metal; 9 = Unconsolidated; 10 = Other

FIGURE 32. CROSSINGS BY NUMBER OF TRAINS PER DAY AND WARNING DEVICE CATEGORY



1 = No signs or signals; 2 = Other signs; 3 = Stop signs; 4 = Crossbucks;
5 = Special warning devices; 6 = Highway signals, wigwags, bells;
7 = Flashing lights; 8 = Gates

FIGURE 34. CROSSINGS BY NUMBER OF TRAINS PER DAY AND TYPE OF WARNING DEVICE

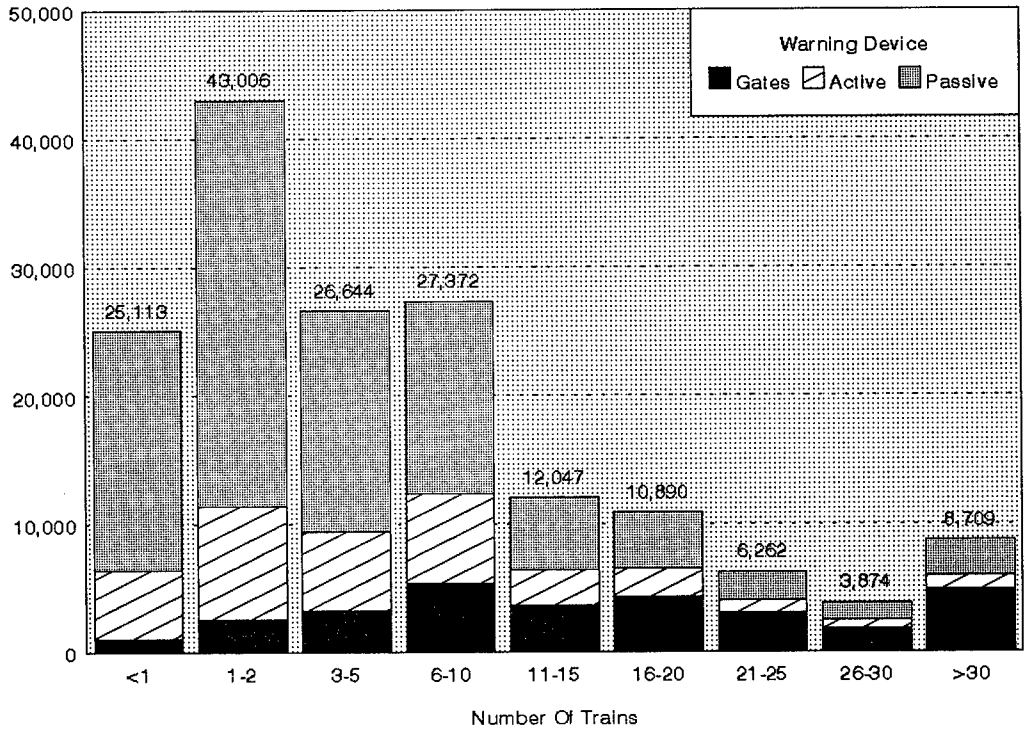
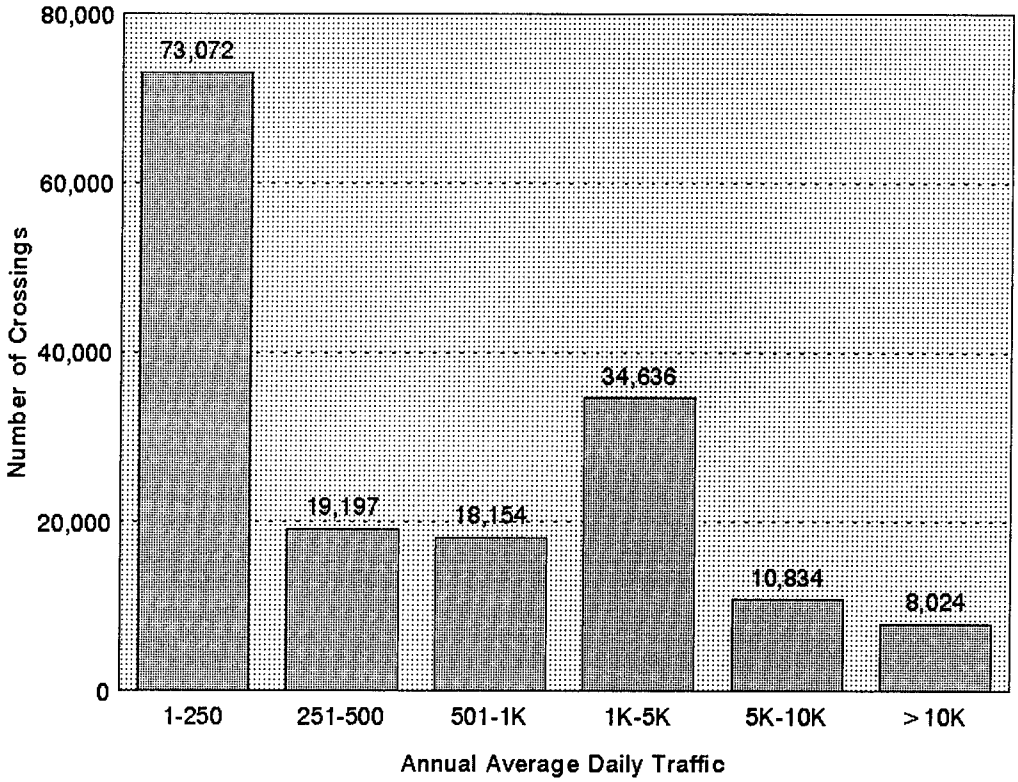


FIGURE 35. CROSSINGS BY ANNUAL AVERAGE DAILY TRAFFIC



(M A P S)

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FIGURE 37A. NUMBER OF PUBLIC CROSSINGS BY STATE, 1995

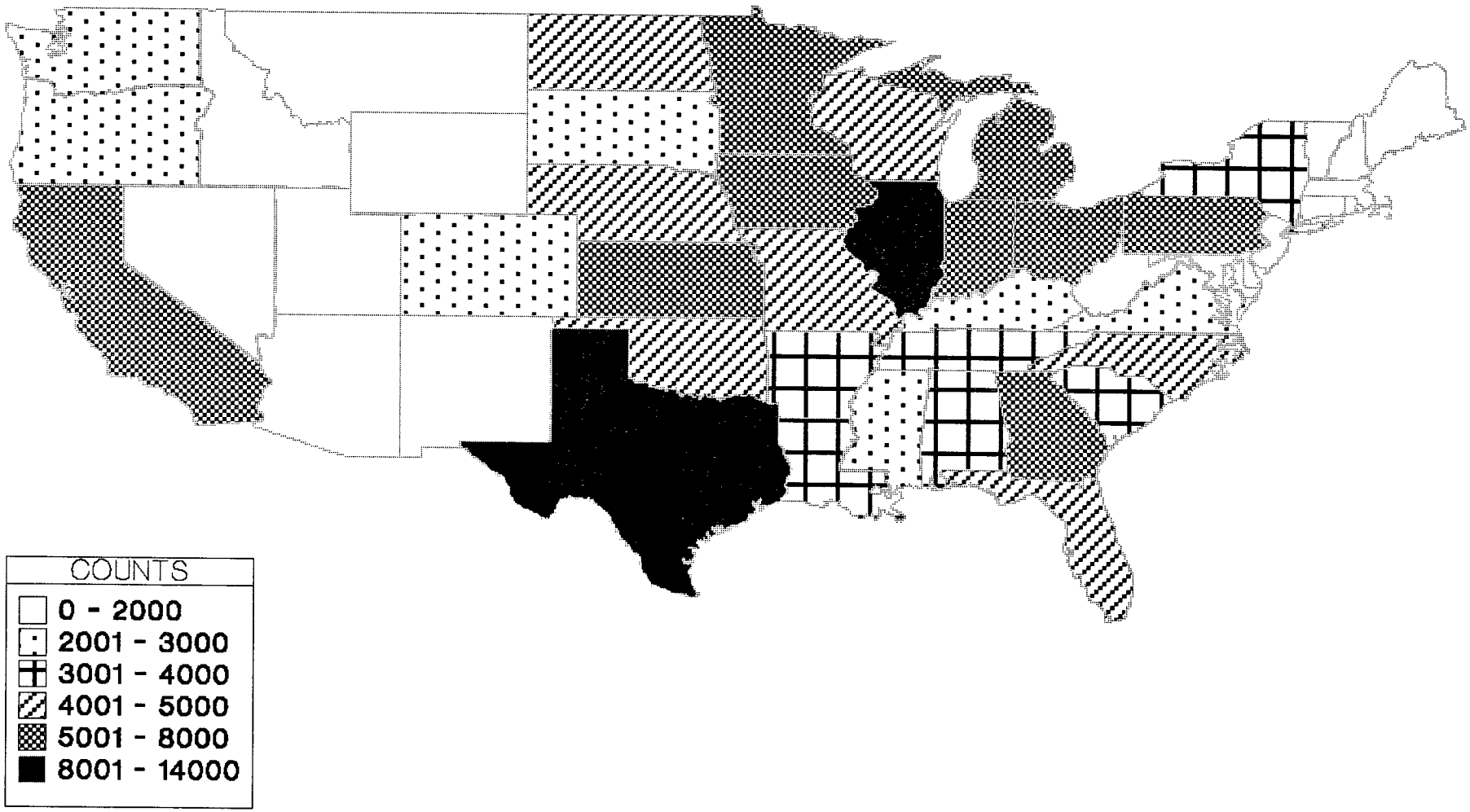
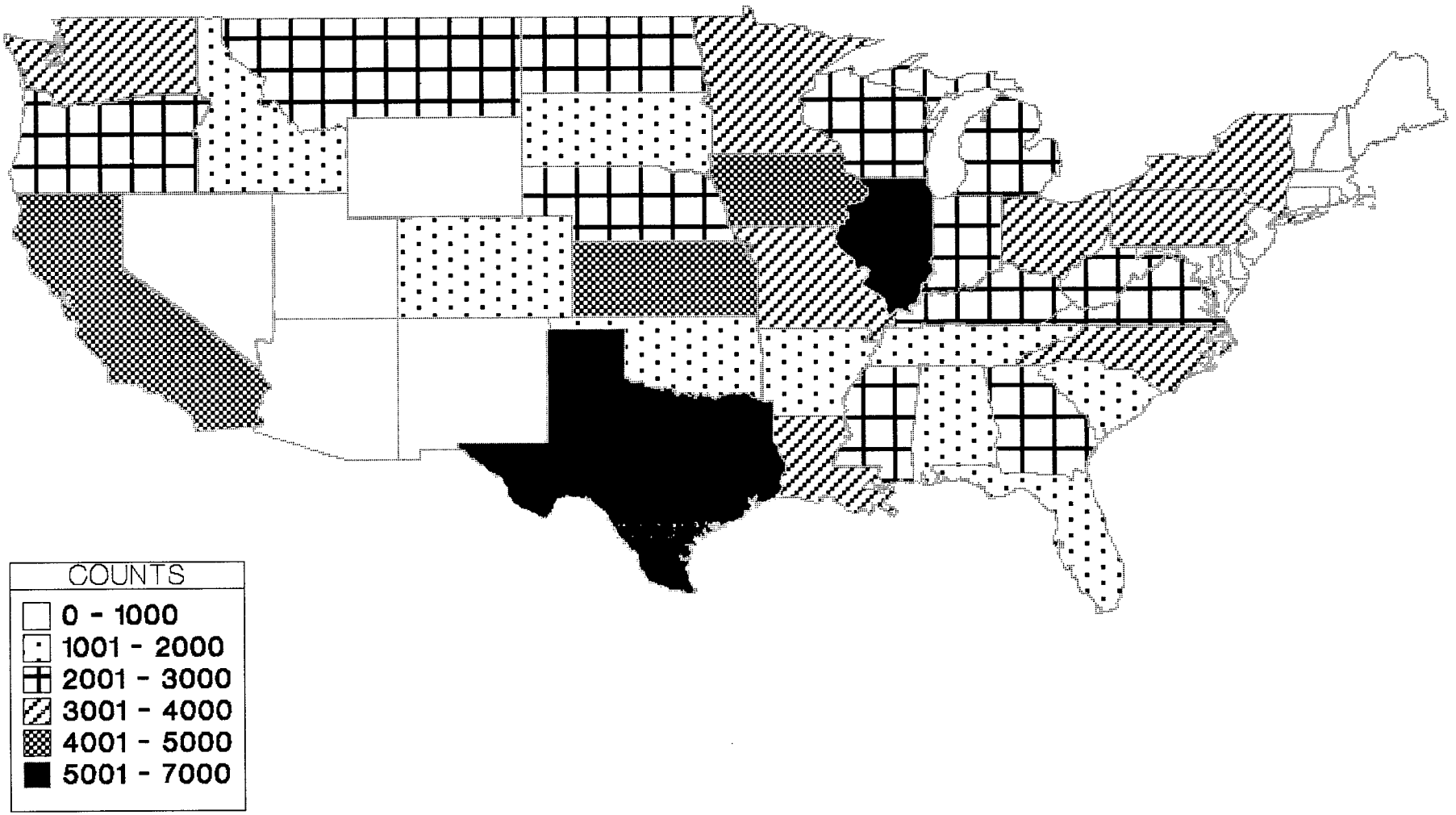


FIGURE 37B. NUMBER OF PRIVATE CROSSINGS BY STATE, 1995



(D A T A)

HIGHWAY-RAIL

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TABLE 33. TOTAL PUBLIC AND PRIVATE CROSSINGS BY STATE AND TYPE, 1995

State	Public At Grade	Public RR Under	Public RR Over	Private at Grade	Private Grade Separated	Pedestrian at Grade	Pedestrian Grade Separated	Total
Alabama	3,610	486	169	1,982	20	24	4	6,295
Alaska	225	14	6	104	1	8	4	362
Arizona	940	88	83	686	106	7	2	1,912
Arkansas	3,280	181	120	1,507	69	10	8	5,175
California	7,956	941	566	4,871	200	158	90	14,782
Colorado	2,069	209	119	1,448	21	21	8	3,895
Connecticut	370	323	252	261	37	0	31	1,274
Delaware	284	44	54	119	2	1	4	508
Dist Of Columbia	23	30	37	8	0	11	2	111
Florida	4,066	235	57	1,480	1	67	4	5,910
Georgia	6,163	569	263	2,775	10	42	11	9,833
Hawaii	6	0	0	0	0	0	0	6
Idaho	1,524	93	69	1,376	11	13	2	3,088
Illinois	10,219	921	1,905	5,684	176	293	85	19,283
Indiana	6,587	439	557	2,846	87	65	13	10,594
Iowa	5,245	467	328	4,217	45	48	11	10,361
Kansas	7,865	350	208	4,232	32	33	0	12,720
Kentucky	2,626	440	439	2,761	103	47	23	6,439
Louisiana	3,656	224	116	3,222	20	36	7	7,281
Maine	882	128	78	934	15	11	3	2,051
Maryland	687	312	202	712	24	8	16	1,961
Massachusetts	1,192	795	436	537	52	18	84	3,114
Michigan	5,761	327	403	2,717	22	109	20	9,359
Minnesota	5,174	459	341	3,133	17	52	24	9,200
Mississippi	2,971	223	111	2,099	14	16	2	5,436
Missouri	4,864	636	411	3,291	72	61	35	9,370
Montana	1,533	133	82	2,058	112	15	5	3,938
Nebraska	4,034	215	126	2,836	39	14	4	7,268
Nevada	289	64	42	265	11	3	1	675
New Hampshire	503	118	52	344	21	7	6	1,051
New Jersey	1,863	534	728	596	57	42	83	3,903
New Mexico	810	70	79	589	44	2	2	1,596
New York	3,275	1,350	1,096	3,177	191	66	232	9,387
North Carolina	4,859	503	287	3,580	17	51	19	9,316
North Dakota	4,624	79	83	2,180	16	19	4	7,005
Ohio	6,551	1,013	1,042	3,704	192	32	49	12,583
Oklahoma	4,561	257	193	1,735	56	13	2	6,817
Oregon	2,302	288	170	2,816	114	90	12	5,792
Pennsylvania	5,583	1,543	1,863	3,418	238	123	198	12,966
Rhode Island	128	107	38	71	7	0	5	356
South Carolina	3,109	372	123	1,348	4	13	4	4,973
South Dakota	2,137	89	46	1,361	53	5	1	3,692
Tennessee	3,368	502	456	1,918	52	28	11	6,335
Texas	12,490	856	781	6,363	137	33	16	20,676
Utah	1,009	116	48	789	2	4	3	1,971
Vermont	496	85	83	650	44	46	4	1,408
Virginia	2,138	602	445	2,923	109	46	20	6,283
Washington	2,854	367	304	3,014	104	95	20	6,758
West Virginia	1,893	251	342	2,220	104	75	19	4,904
Wisconsin	4,712	417	310	2,868	84	107	38	8,536
Wyoming	527	113	46	932	78	1	7	1,704
Puerto Rico	24	0	0	2	0	0	0	26
FINAL TOTALS	163,917	18,978	16,195	104,759	3,043	2,089	1,258	310,239

TABLE 34. TOTAL PUBLIC AND PRIVATE CROSSINGS BY RAILROAD AND TYPE, 1995

Railroad	Public At Grade	Public RR Under	Public RR Over	Private at Grade	Private Grade Separated	Pedestrian at Grade	Pedestrian Grade Separated	Total
Alaska Railroad Corp.	221	14	6	104	1	8	4	358
Alton & Southern Railroad	21	7	1	27	0	0	0	56
Amtrak (Nat'l. Railroad Passenger Corp.)	185	539	489	68	23	2	73	1,379
Atchison, Topeka & Santa Fe Railway Co.	6,615	628	577	3,660	191	51	22	11,744
Bangor & Aroostook Railroad	165	12	23	385	0	7	0	592
Belt Railway Co. Of Chicago	38	8	62	76	3	0	1	188
Bessemer & Lake Erie Railroad Co.	140	35	49	96	3	2	0	325
Birmingham Southern Railroad Co.	46	18	7	36	0	0	0	107
Burlington Northern Railroad Co.	18,827	1,524	1,169	12,456	365	259	66	34,666
Chicago and North Western Railway Co.	3,428	403	599	2,369	140	98	45	7,082
Chicago, Central & Pacific Railroad Co.	890	89	79	702	49	15	12	1,836
Consolidated Rail Corp.	12,510	3,124	3,374	6,939	383	170	259	26,759
CSX Transportation	18,047	2,491	1,772	10,588	298	330	121	33,647
Dakota, Minnesota & Eastern Railroad	805	21	33	554	38	2	0	1,453
Delaware & Hudson Railway Co.	311	81	93	446	30	16	9	986
Denver & Rio Grande Western Railroad Co.	830	140	71	673	4	3	4	1,725
Duluth, Missabe & Iron Range Railway Co.	140	25	28	129	4	1	0	327
Duluth, Winnipeg & Pacific Railway	80	8	3	21	0	0	0	112
Elgin, Joliet & Eastern Railway Co.	191	30	28	73	2	0	0	324
Florida East Coast Railway Co.	716	33	6	113	0	14	0	882
Gateway Western Railway	225	24	23	156	1	2	0	431
Grand Trunk Western Railroad Inc.	1,118	101	177	446	4	14	11	1,871
Houston Belt & Terminal Railway Co.	157	23	16	43	0	4	1	244
Illinois Central Railroad Co.	2,664	327	332	1,641	43	65	23	5,095
Indiana Harbor Belt Railroad Co.	77	30	28	43	0	2	4	184
Kansas City Southern Railway Co.	1,748	171	121	1,088	30	9	6	3,173
Long Island Rail Road	304	294	105	82	0	8	80	873
Metro North Commuter Railroad Co.	62	12	16	60	2	0	3	155
Montana Rail Link	449	52	21	684	10	3	1	1,220
New Jersey Transit Rail Operations	347	199	297	96	13	19	45	1,016
Norfolk Southern Corp.	17,043	1,996	1,644	11,269	235	104	47	32,338
Northeast Illinois Regional Comuter Rail Co	62	7	69	10	0	0	0	148
Northern Indiana Commuter Transportation	113	13	17	25	5	7	1	181
Paducah & Louisville Railway Co.	262	53	49	185	7	3	0	559
Port Authority Trans Hudson	0	0	0	2	0	0	0	2
Port Terminal Railroad Assoc.	66	2	9	98	0	1	0	176
Soo Line Railroad Co.	4,291	363	365	2,780	47	69	25	7,940
Southeastern Pennsylvania Trans. Authority	262	114	174	53	22	10	40	675
Southern Pacific Transportation Co.	7,623	850	506	4,561	208	119	56	13,923
Southern Pacific, Chicago-St. Louis Corp.	267	19	27	78	3	20	1	415
Springfield Terminal Railway Co.	1,314	505	237	710	59	14	39	2,878
St. Louis Southwestern Railway Co.	2,019	114	77	770	29	2	0	3,011
Terminal Railroad Association Of St. Louis	141	40	26	12	1	0	0	220
Union Pacific Railroad Company	18,446	1,600	1,001	12,187	178	127	67	33,606
Union Railroad Company (Pittsburgh)	14	21	33	39	8	6	8	129
Wheeling & Lake Erie Railway Co.	600	83	161	442	32	9	6	1,333
Wisconsin Central Ltd. (also Railway)	1,902	100	86	1,162	7	32	6	3,295
All Other Railroads	38,135	2,635	2,109	26,522	565	462	172	70,600
FINAL TOTALS	163,917	18,978	16,195	104,759	3,043	2,089	1,258	310,239

TABLE 35. TOTAL OF CROSSINGS BY STATE AND LOCATION: URBAN OR RURAL, 1995

State	Urban	Rural	Total
Alabama	1,680	1,930	3,610
Alaska	87	138	225
Arizona	469	471	940
Arkansas	1,263	2,017	3,280
California	5,774	2,182	7,956
Colorado	716	1,353	2,069
Connecticut	239	131	370
Delaware	83	201	284
Dist of Columbia	23	---	23
Florida	2,354	1,712	4,066
Georgia	2,182	3,981	6,163
Hawaii	---	6	6
Idaho	250	1,274	1,524
Illinois	3,891	6,328	10,219
Indiana	2,858	3,729	6,587
Iowa	1,615	3,630	5,245
Kansas	1,403	6,462	7,865
Kentucky	703	1,923	2,626
Louisiana	1,615	2,041	3,656
Maine	236	646	882
Maryland	516	171	687
Massachusetts	843	349	1,192
Michigan	2,341	3,420	5,761
Minnesota	1,391	3,783	5,174
Mississippi	1,131	1,840	2,971
Missouri	1,577	3,287	4,864
Montana	281	1,252	1,533
Nebraska	497	3,537	4,034
Nevada	90	199	289
New Hampshire	221	282	503
New Jersey	1,331	532	1,863
New Mexico	237	573	810
New York	1,512	1,763	3,275
North Carolina	2,004	2,855	4,859
North Dakota	252	4,372	4,624
Ohio	3,094	3,457	6,551
Oklahoma	302	4,259	4,561
Oregon	1,005	1,297	2,302
Pennsylvania	2,917	2,666	5,583
Rhode Island	123	5	128
South Carolina	1,046	2,063	3,109
South Dakota	261	1,876	2,137
Tennessee	1,524	1,844	3,368
Texas	6,608	5,882	12,490
Utah	544	465	1,009
Vermont	165	331	496
Virginia	894	1,244	2,138
Washington	1,354	1,500	2,854
West Virginia	419	1,474	1,893
Wisconsin	1,867	2,845	4,712
Wyoming	81	446	527
Puerto Rico	---	24	24
Unknown	---	---	---
Total	63,869	100,048	163,917

TABLE 36. TOTAL CROSSINGS BY NUMBER OF MAIN AND OTHER TRACKS, 1995

Other Tracks	Number of main tracks 0	1	2	3	4	5	>5	Total
0	5	98,241	9,798	296	70	5	5	108,420
1	15,681	21,253	2,611	71	16	---	1	39,633
2	3,466	6,374	1,000	50	14	1	1	10,906
3	934	1,854	305	27	13	---	---	3,133
4	265	570	136	12	7	3	1	994
5	116	231	66	5	1	1	1	421
>5	101	236	68	2	3	---	---	410
Total	20,568	128,759	13,984	463	124	10	9	163,917

TABLE 37. CROSSINGS BY NUMBER OF TRACKS AND WARNING DEVICE, 1995

Warning device \ Number of Tracks	1	2	3	4	5	>5	Total
Gates.....	14,200	10,161	3,493	1,217	439	402	29,912
Flashing lights.....	21,003	5,336	1,700	543	167	161	28,910
Hwy. signals, wigwags, bells	982	386	139	43	19	14	1,583
Special warning devices.....	3,256	933	299	119	38	46	4,691
Stop signs.....	8,032	2,121	550	173	49	41	10,966
Crossbucks.....	61,311	14,442	3,726	1,070	313	239	81,101
Other signs.....	364	93	29	16	1	3	506
No signs or signals.....	4,774	1,045	279	79	36	35	6,248
Total.....	113,922	34,517	10,215	3,260	1,062	941	163,917

TABLE 38. CROSSINGS BY TRACKS AND TRAFFIC LANES, 1995

Traffic Lanes	Number of tracks 1	2	3	4	5	>5	Total
1	19,451	4,099	684	159	33	39	24,465
2	87,130	27,758	8,655	2,811	930	797	128,081
3	775	350	100	28	9	12	1,274
4	5,670	2,051	708	246	87	85	8,847
5	425	118	35	8	1	4	591
>5	471	141	33	8	2	4	659
Total	113,922	34,517	10,215	3,260	1,062	941	163,917

TABLE 39. TOTAL CROSSINGS BY NUMBER OF TRACKS AND STATE, 1995

State	Number of Tracks						
	1	2	3	4	5	>5	Total
Alabama	2,597	638	253	66	26	30	3,610
Alaska	184	34	6	1	---	---	225
Arizona	699	165	57	15	3	1	940
Arkansas	2,250	715	213	62	24	16	3,280
California	5,460	1,572	567	185	87	85	7,956
Colorado	1,438	424	141	40	13	13	2,069
Connecticut	299	59	10	---	2	---	370
Delaware	249	29	5	---	1	---	284
Dist of Columbia	21	2	---	---	---	---	23
Florida	2,586	1,034	289	77	39	41	4,066
Georgia	4,585	1,120	300	104	20	34	6,163
Hawaii	6	---	---	---	---	---	6
Idaho	1,072	293	108	35	10	6	1,524
Illinois	6,321	2,735	768	251	89	55	10,219
Indiana	4,710	1,433	307	88	30	19	6,587
Iowa	3,479	1,144	419	133	36	34	5,245
Kansas	5,412	1,624	533	186	60	50	7,865
Kentucky	1,767	641	148	48	9	13	2,626
Louisiana	2,734	655	180	51	15	21	3,656
Maine	724	123	24	9	1	1	882
Maryland	518	131	19	12	2	5	687
Massachusetts	941	187	41	15	4	4	1,192
Michigan	4,118	1,190	274	105	36	38	5,761
Minnesota	3,677	982	335	115	31	34	5,174
Mississippi	2,047	599	201	77	21	26	2,971
Missouri	2,875	1,311	468	131	41	38	4,864
Montana	1,003	351	127	26	12	14	1,533
Nebraska	2,637	899	318	108	40	32	4,034
Nevada	205	65	12	4	1	2	289
New Hampshire	427	66	7	2	1	---	503
New Jersey	1,360	385	83	18	8	9	1,863
New Mexico	567	172	44	16	4	7	810
New York	2,311	731	160	47	13	13	3,275
North Carolina	3,619	831	261	86	31	31	4,859
North Dakota	3,698	678	194	40	13	1	4,624
Ohio	3,721	2,025	535	179	52	39	6,551
Oklahoma	3,033	1,010	323	125	42	28	4,561
Oregon	1,657	440	161	31	12	1	2,302
Pennsylvania	3,673	1,344	351	137	42	36	5,583
Rhode Island	86	36	6	---	---	---	128
South Carolina	2,475	516	83	17	9	9	3,109
South Dakota	1,685	288	116	35	6	7	2,137
Tennessee	2,263	767	220	73	21	24	3,368
Texas	8,985	2,390	701	262	80	72	12,490
Utah	683	213	71	17	18	7	1,009
Vermont	403	71	16	4	---	2	496
Virginia	1,412	508	161	40	11	6	2,138
Washington	1,864	603	260	85	22	20	2,854
West Virginia	1,361	396	103	20	4	9	1,893
Wisconsin	3,658	772	196	63	16	7	4,712
Wyoming	348	115	40	19	4	1	527
Puerto Rico	19	5	---	---	---	---	24
Unknown	---	---	---	---	---	---	---
Total	113,922	34,517	10,215	3,260	1,062	941	163,917

TABLE 40. TOTAL CROSSINGS BY TYPE OF HIGHWAY SYSTEM AND STATE, 1995

State	Highway System 01	02	03	08	Total
Alabama	---	163	650	2,797	3,610
Alaska	6	10	34	175	225
Arizona	10	30	248	652	940
Arkansas	2	135	1,150	1,993	3,280
California	---	929	1,618	5,409	7,956
Colorado	---	83	453	1,533	2,069
Connecticut	---	25	133	212	370
Delaware	---	31	118	135	284
Dist of Columbia	---	3	1	19	23
Florida	1	276	864	2,925	4,066
Georgia	---	373	949	4,841	6,163
Hawaii	---	---	---	6	6
Idaho	---	47	250	1,227	1,524
Illinois	1	617	2,160	7,441	10,219
Indiana	---	234	1,575	4,778	6,587
Iowa	3	286	1,186	3,770	5,245
Kansas	---	305	1,465	6,095	7,865
Kentucky	2	75	473	2,076	2,626
Louisiana	5	137	667	2,847	3,656
Maine	---	72	120	690	882
Maryland	---	15	33	639	687
Massachusetts	---	116	437	639	1,192
Michigan	9	232	1,550	3,970	5,761
Minnesota	1	182	942	4,049	5,174
Mississippi	---	133	725	2,113	2,971
Missouri	3	93	813	3,955	4,864
Montana	---	59	177	1,297	1,533
Nebraska	---	199	702	3,133	4,034
Nevada	---	17	26	246	289
New Hampshire	---	7	191	305	503
New Jersey	---	77	350	1,436	1,863
New Mexico	---	21	116	673	810
New York	---	198	588	2,489	3,275
North Carolina	---	109	569	4,181	4,859
North Dakota	3	178	561	3,882	4,624
Ohio	---	263	1,572	4,716	6,551
Oklahoma	---	142	670	3,749	4,561
Oregon	---	133	532	1,637	2,302
Pennsylvania	128	551	1,818	3,086	5,583
Rhode Island	---	6	58	64	128
South Carolina	1	189	764	2,155	3,109
South Dakota	---	98	342	1,697	2,137
Tennessee	---	104	586	2,678	3,368
Texas	81	96	182	12,131	12,490
Utah	1	15	139	854	1,009
Vermont	---	36	91	369	496
Virginia	---	91	656	1,391	2,138
Washington	---	93	558	2,203	2,854
West Virginia	---	115	373	1,405	1,893
Wisconsin	---	301	1,136	3,275	4,712
Wyoming	---	27	72	428	527
Puerto Rico	---	6	2	16	24
Unknown	---	---	---	---	---
Total	257	7,733	31,445	124,482	163,917

HIGHWAY SYSTEM CODES

CODE	SYSTEM	CODE	SYSTEM
01	Interstate	02	Other NHS
03	Other Fed-Aid Non NHS	08	Non Fed-Aid

TABLE 41. TOTAL CROSSINGS BY HIGHWAY SYSTEM GROUP AND STATE, 1995

State	On-State	Off-State	Total
Alabama	244	3,366	3,610
Alaska	56	169	225
Arizona	52	888	940
Arkansas	543	2,737	3,280
California	324	7,632	7,956
Colorado	231	1,838	2,069
Connecticut	83	287	370
Delaware	252	32	284
Dist of Columbia	10	13	23
Florida	454	3,612	4,066
Georgia	717	5,446	6,163
Hawaii	---	6	6
Idaho	105	1,419	1,524
Illinois	1,281	8,938	10,219
Indiana	603	5,984	6,587
Iowa	291	4,954	5,245
Kansas	417	7,448	7,865
Kentucky	766	1,860	2,626
Louisiana	832	2,824	3,656
Maine	171	711	882
Maryland	114	573	687
Massachusetts	45	1,147	1,192
Michigan	334	5,427	5,761
Minnesota	278	4,896	5,174
Mississippi	374	2,597	2,971
Missouri	705	4,159	4,864
Montana	234	1,299	1,533
Nebraska	307	3,727	4,034
Nevada	43	246	289
New Hampshire	112	391	503
New Jersey	176	1,687	1,863
New Mexico	180	630	810
New York	346	2,929	3,275
North Carolina	3,112	1,747	4,859
North Dakota	219	4,405	4,624
Ohio	875	5,676	6,551
Oklahoma	356	4,205	4,561
Oregon	142	2,160	2,302
Pennsylvania	1,787	3,796	5,583
Rhode Island	46	82	128
South Carolina	2,216	893	3,109
South Dakota	146	1,991	2,137
Tennessee	298	3,070	3,368
Texas	2,028	10,462	12,490
Utah	109	900	1,009
Vermont	111	385	496
Virginia	1,414	724	2,138
Washington	157	2,697	2,854
West Virginia	1,150	743	1,893
Wisconsin	369	4,343	4,712
Wyoming	72	455	527
Puerto Rico	19	5	24
Unknown	---	---	---
Total	25,306	138,611	163,917

TABLE 42. CROSSINGS BY FUNCTIONAL CLASSIFICATION OF ROAD, 1995

Rural	Crossings	Urban	Crossings
Interstate	35	Interstate	148
Other principal arterial	1,182	Other freeway/expressway	369
Minor arterial	3,758	Other principal arterial	5,772
Major collector	11,186	Minor arterial	10,401
Minor collector	9,378	Collector	10,755
Local	74,509	Local	36,424
Total	100,048	Total	63,869

TABLE 43. TOTAL CROSSINGS BY NUMBER OF TRAFFIC LANES AND STATE, 1995

	Number of Lanes						
State	1	2	3	4	5	>5	Total
Alabama	688	2,710	33	163	6	10	3,610
Alaska	12	193	1	17	2	---	225
Arizona	11	758	15	107	25	24	940
Arkansas	712	2,481	17	65	4	1	3,280
California	406	5,468	195	1,532	149	206	7,956
Colorado	172	1,715	21	145	10	6	2,069
Connecticut	5	330	16	17	2	---	370
Delaware	14	253	4	12	---	1	284
Dist of Columbia	---	16	2	2	1	2	23
Florida	161	3,347	83	367	34	74	4,066
Georgia	1,173	4,731	27	212	12	8	6,163
Hawaii	---	6	---	---	---	---	6
Idaho	263	1,208	7	43	1	2	1,524
Illinois	2,044	7,439	57	641	16	22	10,219
Indiana	864	5,352	59	280	18	14	6,587
Iowa	609	4,417	36	177	5	1	5,245
Kansas	1,864	5,691	16	290	2	2	7,865
Kentucky	820	1,756	6	43	---	1	2,626
Louisiana	553	2,868	20	189	14	12	3,656
Maine	44	820	2	15	1	---	882
Maryland	71	557	8	44	3	4	687
Massachusetts	43	1,084	8	56	1	---	1,192
Michigan	348	4,801	74	454	52	32	5,761
Minnesota	859	4,048	15	248	3	1	5,174
Mississippi	372	2,490	9	95	2	3	2,971
Missouri	1,206	3,520	11	119	5	3	4,864
Montana	148	1,357	2	23	2	1	1,533
Nebraska	868	3,108	5	52	1	---	4,034
Nevada	67	180	1	39	1	1	289
New Hampshire	32	449	2	17	2	1	503
New Jersey	87	1,625	15	129	1	6	1,863
New Mexico	261	502	1	39	3	4	810
New York	305	2,836	19	110	2	3	3,275
North Carolina	265	4,348	36	188	12	10	4,859
North Dakota	1,041	3,558	1	23	1	---	4,624
Ohio	753	5,466	53	263	9	7	6,551
Oklahoma	883	3,417	7	248	2	4	4,561
Oregon	265	1,884	46	81	24	2	2,302
Pennsylvania	851	4,409	118	177	2	26	5,583
Rhode Island	2	102	---	24	---	---	128
South Carolina	364	2,527	28	159	21	10	3,109
South Dakota	641	1,450	---	39	4	3	2,137
Tennessee	443	2,705	31	152	31	6	3,368
Texas	2,138	9,045	66	1,076	60	105	12,490
Utah	183	750	1	71	1	3	1,009
Vermont	108	376	5	7	---	---	496
Virginia	26	1,976	23	92	11	10	2,138
Washington	251	2,276	55	233	31	8	2,854
West Virginia	893	982	7	9	1	1	1,893
Wisconsin	168	4,283	8	233	1	19	4,712
Wyoming	107	388	2	30	---	---	527
Puerto Rico	1	23	---	---	---	---	24
Unknown	---	---	---	---	---	---	---
Total	24,465	128,081	1,274	8,847	591	659	163,917

TABLE 44. CROSSINGS BY NUMBER OF TRAFFIC LANES AND WARNING DEVICE, 1995

Warning device	Number of Traffic Lanes 1	2	3	4	5	>5	Total
Gates	811	24,419	481	3,577	305	319	29,912
Flashing lights	786	24,374	357	2,978	203	212	28,910
Hwy. signals, wigwags, bells	121	1,181	64	171	17	29	1,583
Special warning devices	312	3,862	107	359	27	24	4,691
Stop signs	1,761	9,044	30	123	2	6	10,966
Crossbucks	19,037	60,437	185	1,353	30	59	81,101
Other signs	123	366	2	14	---	1	506
No signs or signals	1,514	4,398	48	272	7	9	6,248
Total	24,465	128,081	1,274	8,847	591	659	163,917

TABLE 45. TOTAL CROSSINGS BY WARNING DEVICE CATEGORY AND STATE, 1995

State	Warning Device Category Gates	Flashing Lights	Hwy.Sig. Wigwags Bells	Special	Stop Signs	Cross-Bucks	Other Signs	No Signs or Signals	Total
Alabama	322	641	9	33	788	1,633	15	169	3,610
Alaska	46	35	---	7	26	102	---	9	225
Arizona	362	72	4	53	95	328	---	26	940
Arkansas	312	459	24	70	179	2,106	---	130	3,280
California	3,161	1,003	301	115	338	2,850	14	174	7,956
Colorado	337	267	42	27	233	1,078	3	82	2,069
Connecticut	98	141	5	24	50	33	---	19	370
Delaware	47	154	---	20	3	51	---	9	284
Dist of Columbia	---	4	2	12	2	1	---	2	23
Florida	2,094	659	13	95	160	972	7	66	4,066
Georgia	1,570	333	21	165	1,076	2,744	6	248	6,163
Hawaii	---	---	---	---	1	5	---	---	6
Idaho	106	196	6	6	591	587	---	32	1,524
Illinois	2,144	2,637	125	216	77	4,639	4	377	10,219
Indiana	1,194	1,640	98	180	827	2,513	7	128	6,587
Iowa	624	1,010	29	46	418	3,041	1	76	5,245
Kansas	915	703	58	199	238	5,610	2	140	7,865
Kentucky	390	805	14	56	50	1,165	---	146	2,626
Louisiana	444	698	27	44	251	1,938	14	240	3,656
Maine	71	388	---	80	18	325	---	---	882
Maryland	102	203	21	30	35	258	6	32	687
Massachusetts	197	462	30	212	5	232	3	51	1,192
Michigan	830	1,451	39	125	873	2,362	4	77	5,761
Minnesota	590	614	9	19	684	3,153	2	103	5,174
Mississippi	140	460	13	53	814	1,225	11	255	2,971
Missouri	486	999	69	94	136	2,843	1	236	4,864
Montana	161	187	1	13	83	1,063	1	24	1,533
Nebraska	569	305	12	14	280	2,736	---	118	4,034
Nevada	121	21	1	4	5	129	---	8	289
New Hampshire	31	146	11	108	50	133	7	17	503
New Jersey	402	659	17	236	18	407	2	122	1,863
New Mexico	198	94	5	9	12	466	5	21	810
New York	1,395	641	71	244	17	812	21	74	3,275
North Carolina	1,140	727	19	211	56	2,362	9	335	4,859
North Dakota	337	123	1	1	78	3,914	---	170	4,624
Ohio	1,633	1,358	36	76	177	3,175	5	91	6,551
Oklahoma	430	720	24	114	132	3,068	7	66	4,561
Oregon	556	137	43	90	438	873	44	121	2,302
Pennsylvania	753	1,278	108	650	142	1,917	276	459	5,583
Rhode Island	15	33	19	23	7	9	---	22	128
South Carolina	611	528	---	158	427	1,359	---	26	3,109
South Dakota	18	173	2	---	28	1,840	---	76	2,137
Tennessee	308	641	19	198	177	1,631	2	392	3,368
Texas	2,494	1,913	67	101	281	7,044	14	576	12,490
Utah	171	166	5	87	58	441	5	76	1,009
Vermont	27	196	3	44	25	199	---	2	496
Virginia	694	516	19	111	8	711	4	75	2,138
Washington	470	407	27	50	105	1,529	2	264	2,854
West Virginia	218	448	4	22	35	976	2	188	1,893
Wisconsin	463	1,334	105	127	327	2,278	---	78	4,712
Wyoming	111	124	4	1	32	235	---	20	527
Puerto Rico	4	1	1	18	---	---	---	---	24
Unknown	---	---	---	---	---	---	---	---	---
Total	29,912	28,910	1,583	4,691	10,966	81,101	506	6,248	163,917

TABLE 46. TOTAL CROSSINGS BY WARNING DEVICE CATEGORY AND RAILROAD, 1995

	Railroad	Gates	Flashing Lights	Hwy. Sig. Wigwags Bells	Special	Stop Signs	Cross-Bucks	Other Signs	No Signs Or Signals	Total
ARR	Alaska Railroad Corp.	46	35	0	7	26	99	0	8	221
ALS	Alton & Southern Railroad	6	7	0	1	0	6	0	1	21
ATK	Amtrak (Nat'l. Railroad Passenger Corp.)	145	9	0	5	6	11	4	5	185
ATSF	Atchison, Topeka & Santa Fe Railway Co.	2,065	831	72	276	78	3,264	5	24	6,615
BAR	Bangor & Aroostook Railroad	4	89	0	8	11	53	0	0	165
BRC	Belt Railway Company Of Chicago	10	8	0	1	0	18	0	1	38
BLE	Bessemer & Lake Erie Railroad Co.	37	29	0	2	0	70	0	2	140
BS	Birmingham Southern Railroad Co.	3	22	0	0	5	15	0	1	46
BN	Burlington Northern Railroad Co.	2,692	2,478	77	216	1,042	11,869	15	438	18,827
CNW	Chicago and North Western Railway Co.	426	731	93	59	134	1,841	1	143	3,428
CC	Chicago, Central & Pacific Railroad Co.	68	264	11	31	40	452	0	24	890
CR	Consolidated Rail Corp.	2,907	3,304	167	1,023	430	3,715	258	706	12,510
CSX	CSX Transportation	4,680	3,857	79	514	1,456	6,702	22	737	18,047
DME	Dakota, Minnesota & Eastern Railroad	14	107	3	0	48	603	0	30	805
DH	Delaware & Hudson Railway Co.	143	83	3	1	3	71	5	2	311
DRGW	Denver & Rio Grande Western Railroad Co.	136	152	5	8	70	418	3	38	830
DMIR	Duluth, Missabe & Iron Range Railway Co.	10	20	0	2	30	76	2	0	140
DWP	Duluth, Winnipeg & Pacific Railway	10	11	0	1	15	43	0	0	80
EJE	Elgin, Joliet & Eastern Railway Co.	78	65	2	9	4	33	0	0	191
FEC	Florida East Coast Railway Co.	601	30	0	27	3	46	0	9	716
GWWR	Gateway Western Railway	7	45	20	0	7	142	0	4	225
GTW	Grand Trunk Western Railroad Inc.	412	243	4	39	207	210	0	3	1,118
HBT	Houston Belt & Terminal Railway Co.	58	28	1	0	2	53	0	15	157
IC	Illinois Central Railroad Co.	363	599	16	66	398	1,041	3	178	2,664
IHB	Indiana Harbor Belt Railroad Co.	26	22	0	16	0	10	0	3	77
KCS	Kansas City Southern Railway Co.	139	196	3	1	14	666	4	64	1,087
LI	Long Island Rail Road	298	0	0	0	0	6	0	0	304
MNCW	Metro North Commuter Railroad Co.	18	36	1	1	0	3	0	3	62
MRL	Montana Rail Link	52	68	1	0	41	280	0	7	449
NJTR	New Jersey Transit Rail Operations	211	88	1	10	1	29	0	7	347
NS	Norfolk Southern Corp.	3,670	3,005	77	496	1,555	7,447	14	779	17,043
NIRC	Northeast Illinois Regional Comuter Rail	53	5	1	1	1	0	0	1	62
NICD	Northern Indiana Commuter Transportation	41	37	7	0	27	1	0	0	113
PAL	Paducah & Louisville Railway Co.	20	105	4	0	10	120	0	3	262
PTRA	Port Terminal Railroad Assoc.	20	12	0	0	1	27	0	6	66
SOO	Soo Line Railroad Co.	510	599	26	57	359	2,541	1	198	4,291
SEPA	Southeastern Pennsylvania Trans. Authority	50	77	21	18	17	32	2	45	262
SP	Southern Pacific Transportation Co.	2,750	875	224	34	365	3,004	10	361	7,623
SSWN	Southern Pacific, Chicago-St. Louis Corp.	108	85	2	11	0	58	0	3	267
ST	Springfield Terminal Railway Co.	65	188	1	41	18	116	0	0	429
SSW	St. Louis Southwestern Railway Co.	299	254	8	10	123	1,215	0	110	2,019
TRRA	Terminal Railroad Association Of St. Loui	45	14	0	56	3	20	0	3	141
UP	Union Pacific Railroad Co.	3,307	2,842	118	186	1,108	10,074	23	788	18,446
URR	Union Railroad Company (Pittsburgh)	3	1	10	0	0	0	0	0	14
WE	Wheeling & Lake Erie Railway Co.	51	164	3	2	25	348	0	7	600
WC	Wisconsin Central Ltd. (also Railway)	152	495	13	18	156	1,052	0	16	1,902
	All Other Railroads	3,103	6,695	509	1,437	3,127	23,201	134	1,475	39,681
FINAL TOTALS		29,912	28,910	1,583	4,691	10,966	81,101	506	6,248	163,917

TABLE 47. TOTAL CROSSINGS BY PAVEMENT MARKINGS AND STATE, 1995

State	Stop Lines	RR X-ing Symbol	Both	None		Total
				Paved	Unpaved	
Alabama	44	504	423	1,986	653	3,610
Alaska	8	9	55	65	88	225
Arizona	25	27	411	247	230	940
Arkansas	57	110	322	1,647	1,144	3,280
California	984	202	4,727	1,743	300	7,956
Colorado	21	37	261	994	756	2,069
Connecticut	12	13	254	90	1	370
Delaware	43	29	89	120	3	284
Dist of Columbia	---	---	9	14	---	23
Florida	268	372	1,843	1,144	439	4,066
Georgia	64	108	2,793	1,647	1,551	6,163
Hawaii	2	---	---	4	---	6
Idaho	8	5	269	673	569	1,524
Illinois	78	165	1,259	4,320	4,397	10,219
Indiana	78	259	1,345	4,041	864	6,587
Iowa	53	153	533	2,002	2,504	5,245
Kansas	7	24	900	2,053	4,881	7,865
Kentucky	46	328	736	899	617	2,626
Louisiana	47	206	578	1,940	885	3,656
Maine	3	3	569	228	79	882
Maryland	10	25	252	357	43	687
Massachusetts	55	45	125	933	34	1,192
Michigan	70	277	1,357	2,633	1,424	5,761
Minnesota	124	171	491	1,826	2,562	5,174
Mississippi	27	44	478	1,585	837	2,971
Missouri	65	110	561	2,066	2,062	4,864
Montana	5	18	158	395	957	1,533
Nebraska	35	274	192	955	2,578	4,034
Nevada	11	11	129	54	84	289
New Hampshire	10	28	59	354	52	503
New Jersey	39	232	252	1,251	89	1,863
New Mexico	5	29	47	338	391	810
New York	126	216	453	2,202	278	3,275
North Carolina	46	33	3,607	566	607	4,859
North Dakota	17	29	137	595	3,846	4,624
Ohio	338	612	3,341	1,841	419	6,551
Oklahoma	31	92	411	2,029	1,998	4,561
Oregon	346	890	147	490	429	2,302
Pennsylvania	67	352	159	4,398	607	5,583
Rhode Island	---	---	80	48	---	128
South Carolina	91	106	1,147	1,329	436	3,109
South Dakota	30	12	132	540	1,423	2,137
Tennessee	20	115	919	1,784	530	3,368
Texas	9	12	6,297	3,025	3,147	12,490
Utah	23	33	195	534	224	1,009
Vermont	36	10	88	214	148	496
Virginia	95	147	947	724	225	2,138
Washington	121	69	546	1,554	564	2,854
West Virginia	18	12	86	1,167	610	1,893
Wisconsin	77	28	754	3,364	489	4,712
Wyoming	7	21	53	157	289	527
Puerto Rico	3	7	---	12	2	24
Unknown	---	---	---	---	---	---
Total	3,805	6,614	40,976	65,177	47,345	163,917

NOTE: The Manual On Uniform Traffic Control Devices does not require pavement markings at all crossings.

TABLE 48. CROSSINGS BY RAILROAD ADVANCE WARNING AND STATE, 1995

State	Yes	No	Total
Alabama	1,716	1,894	3,610
Alaska	150	75	225
Arizona	580	360	940
Arkansas	909	2,371	3,280
California	6,392	1,564	7,956
Colorado	1,103	966	2,069
Connecticut	326	44	370
Delaware	242	42	284
Dist of Columbia	6	17	23
Florida	2,550	1,516	4,066
Georgia	3,176	2,987	6,163
Hawaii	1	5	6
Idaho	913	611	1,524
Illinois	5,301	4,918	10,219
Indiana	5,657	930	6,587
Iowa	3,595	1,650	5,245
Kansas	4,277	3,588	7,865
Kentucky	1,532	1,094	2,626
Louisiana	2,417	1,239	3,656
Maine	870	12	882
Maryland	445	242	687
Massachusetts	882	310	1,192
Michigan	4,711	1,050	5,761
Minnesota	3,404	1,770	5,174
Mississippi	741	2,230	2,971
Missouri	1,447	3,417	4,864
Montana	973	560	1,533
Nebraska	2,877	1,157	4,034
Nevada	225	64	289
New Hampshire	297	206	503
New Jersey	963	900	1,863
New Mexico	179	631	810
New York	2,594	681	3,275
North Carolina	3,763	1,096	4,859
North Dakota	1,703	2,921	4,624
Ohio	4,860	1,691	6,551
Oklahoma	1,762	2,799	4,561
Oregon	1,004	1,298	2,302
Pennsylvania	2,070	3,513	5,583
Rhode Island	81	47	128
South Carolina	2,249	860	3,109
South Dakota	1,407	730	2,137
Tennessee	2,088	1,280	3,368
Texas	9,883	2,607	12,490
Utah	592	417	1,009
Vermont	409	87	496
Virginia	1,641	497	2,138
Washington	2,061	793	2,854
West Virginia	454	1,439	1,893
Wisconsin	3,239	1,473	4,712
Wyoming	291	236	527
Puerto Rico	17	7	24
Unknown	---	---	---
Total	101,025	62,892	163,917

NOTE: **The Manual On Uniform Traffic Control Devices does not require pavement markings at all crossings.**

TABLE 49. CROSSINGS MEETING THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES' STANDARD FOR CROSSBUCKS BY STATE, 1995

State	Active Warning	X-buck meet standards Yes	No	Total
Alabama	972	1,972	666	3,610
Alaska	81	106	38	225
Arizona	438	394	108	940
Arkansas	795	1,776	709	3,280
California	4,465	1,601	1,890	7,956
Colorado	646	1,055	368	2,069
Connecticut	244	88	38	370
Delaware	201	59	24	284
Dist of Columbia	6	12	5	23
Florida	2,766	944	356	4,066
Georgia	1,924	3,567	672	6,163
Hawaii	---	4	2	6
Idaho	308	1,025	191	1,524
Illinois	4,906	4,169	1,144	10,219
Indiana	2,932	3,075	580	6,587
Iowa	1,663	2,753	829	5,245
Kansas	1,676	2,871	3,318	7,865
Kentucky	1,209	1,115	302	2,626
Louisiana	1,169	1,987	500	3,656
Maine	459	410	13	882
Maryland	326	191	170	687
Massachusetts	689	296	207	1,192
Michigan	2,320	3,107	334	5,761
Minnesota	1,213	3,658	303	5,174
Mississippi	613	1,488	870	2,971
Missouri	1,554	1,773	1,537	4,864
Montana	349	956	228	1,533
Nebraska	886	2,760	388	4,034
Nevada	143	93	53	289
New Hampshire	188	210	105	503
New Jersey	1,078	324	461	1,863
New Mexico	297	289	224	810
New York	2,107	826	342	3,275
North Carolina	1,886	1,681	1,292	4,859
North Dakota	461	2,850	1,313	4,624
Ohio	3,027	2,525	999	6,551
Oklahoma	1,174	2,301	1,086	4,561
Oregon	736	1,077	489	2,302
Pennsylvania	2,139	1,250	2,194	5,583
Rhode Island	67	2	59	128
South Carolina	1,139	1,857	113	3,109
South Dakota	193	1,762	182	2,137
Tennessee	968	1,149	1,251	3,368
Texas	4,474	3,744	4,272	12,490
Utah	342	469	198	1,009
Vermont	226	254	16	496
Virginia	1,229	627	282	2,138
Washington	904	1,132	818	2,854
West Virginia	670	724	499	1,893
Wisconsin	1,902	2,432	378	4,712
Wyoming	239	182	106	527
Puerto Rico	6	6	12	24
Unknown	---	---	---	---
Total	60,405	70,978	32,534	163,917

NOTE: The manual requires two reflectorized crossbucks to be placed at all crossings.

For crossings with active warning devices, a determination has not been made as to whether crossbucks which are part of the device meet the MUTCD standard.

TABLE 50. TOTAL CROSSINGS BY TOTAL NUMBER OF TRAINS PER DAY, 1995

Trains	Crossings
<1	25,113
1-5	69,650
6-10	27,372
11-15	12,047
16-20	10,890
21-25	6,262
26-30	3,874
31-35	2,145
36-40	1,581
41-45	859
46-50	957
51-55	886
56-60	679
61-65	309
66-70	198
71-75	211
76-80	276
81-85	51
86-90	23
91-95	261
96-100	59
>100	214
Total	163,917

TABLE 51. TOTAL CROSSINGS BY NUMBER OF THRU TRAINS AND SWITCHING TRAINS PER DAY, 1995

Switching Trains	Through trains <1	1-2	3-5	6-10	11-15	16-20	21-25	>25	Total
<1	25,113	24,466	11,053	11,124	5,071	5,049	2,637	4,272	88,785
1-2	16,850	9,181	5,834	6,388	2,551	2,746	922	2,771	47,243
2-3	5,401	1,674	2,054	2,858	1,386	921	326	1,386	16,006
6-10	2,407	724	737	1,355	817	872	349	793	8,054
11-15	408	111	114	239	108	70	73	680	1,803
16-20	425	102	86	126	166	74	87	90	1,156
21-25	98	25	22	35	35	16	23	42	296
>25	179	58	38	67	66	43	31	92	574
Total	50,881	36,341	19,938	22,192	10,200	9,791	4,448	10,126	163,917

TABLE 52. TOTAL CROSSINGS BY NUMBER OF DAY AND NIGHT TRAINS PER DAY, 1995

Day Trains	Night trains <1	1-2	3-5	6-10	11-15	16-20	21-25	>25	Total
<1	25,113	6,457	915	158	6	8	4	5	32,666
1-2	25,910	25,276	2,769	346	21	10	1	3	54,336
2-3	4,389	9,342	15,298	1,741	136	35	36	2	30,979
6-10	1,369	1,882	6,052	14,188	1,692	90	42	14	25,329
11-15	199	228	723	3,667	5,115	585	25	21	10,563
16-20	104	39	167	687	1,164	2,074	206	37	4,478
21-25	16	26	10	82	361	293	914	165	1,867
>25	70	11	54	137	264	293	786	2,084	3,699
Total	57,170	43,261	25,988	21,006	8,759	3,388	2,014	2,331	163,917

TABLE 53. CROSSINGS BY NUMBER OF TRAINS PER DAY AND WARNING DEVICE, 1995

Warning device	Number of Trains Per Day <1	1-2	3-5	6-10	11-15	16-20	21-25	>25	Total
Gates	1,064	2,577	3,258	5,403	3,618	4,283	3,060	6,649	29,912
Flashing lights	3,319	6,915	5,314	6,297	2,552	2,053	944	1,516	28,910
Hwy. signals, wigwags, bells	213	404	292	279	127	96	34	138	1,583
Special warning devices	1,827	1,540	552	389	127	110	32	114	4,691
Stop signs	997	2,744	2,175	2,170	736	882	382	880	10,966
Crossbucks	15,315	26,651	14,171	12,146	4,668	3,312	1,746	3,092	81,101
Other signs	150	169	82	56	12	18	1	18	506
No signs or signals	2,228	2,006	800	632	207	136	63	176	6,248
Total	25,113	43,006	26,644	27,372	12,047	10,890	6,262	12,583	163,917

TABLE 54. TOTAL CROSSINGS BY NUMBER OF TRAINS PER DAY AND ANNUAL AVERAGE DAILY TRAFFIC, 1995

Trains	Average annual daily traffic 1-250	251-500	501-1,000	1,001-5,000	5,001-10,000	>10,000	Total
<1	10,765	2,971	2,817	5,524	1,820	1,216	25,113
1-2	20,917	5,030	4,601	8,285	2,453	1,720	43,006
2-3	11,996	3,217	2,946	5,486	1,672	1,327	26,644
6-10	12,081	3,308	3,144	5,787	1,723	1,329	27,372
11-15	5,262	1,317	1,335	2,720	779	634	12,047
16-20	4,451	1,300	1,288	2,463	832	556	10,890
21-25	2,476	691	699	1,503	491	402	6,262
>25	5,124	1,363	1,324	2,868	1,064	840	12,583
Total	73,072	19,197	18,154	34,636	10,834	8,024	163,917

TABLE 55. CROSSINGS BY MAXIMUM TIMETABLE SPEED, 1995

Timetable Speed	Crossings
1-5	5,309
6-10	29,982
11-15	8,490
16-20	12,738
21-25	21,219
26-30	16,084
31-35	9,890
36-40	17,053
41-45	3,604
46-50	13,681
51-55	2,809
56-60	10,565
61-65	1,208
66-70	4,703
71-75	560
76-80	5,463
81-85	1
86-90	464
91-95	1
96-100	8
>100	85
Total	163,917

TABLE 56. TOTAL CROSSINGS BY TYPICAL TRAIN SPEED VARIATION, 1995

Speed Variation	Crossings
<1	13,582
1-5	42,175
6-10	36,218
11-15	16,851
16-20	16,407
21-25	9,894
26-30	8,869
31-35	4,512
36-40	4,477
41-45	2,409
46-50	3,358
51-55	810
56-60	1,951
61-65	659
66-70	351
71-75	620
76-80	653
81-85	13
86-90	2
91-95	---
96-100	---
>100	106
Total	163,917

TABLE 57. TOTAL CROSSINGS BY ANNUAL AVERAGE DAILY TRAFFIC, 1995

AADT	Crossings
1-100	51,298
101-200	15,118
201-300	11,533
301-400	7,267
401-500	7,053
501-600	4,571
601-700	3,486
701-800	3,925
801-900	2,595
901-1,000	3,577
1,001-2,000	15,849
2,001-3,000	8,683
3,001-4,000	5,437
4,001-5,000	4,667
5,001-6,000	3,040
6,001-7,000	2,289
7,001-8,000	2,223
8,001-9,000	1,589
9,001-10,000	1,693
10,001-20,000	6,092
>20,000	1,932
Total	163,917

TABLE 58. TOTAL CROSSINGS BY ANNUAL AVERAGE DAILY TRAFFIC AND WARNING DEVICE CATEGORY, 1995

	Annual Average Daily Traffic						
Warning device	1-250	251-500	501-1,000	1,001-5,000	5,001-10,000	> 10,000	Total
Gates	4,225	3,164	3,910	10,651	4,264	3,698	29,912
Flashing lights	3,990	3,363	4,355	10,756	3,677	2,769	28,910
Hwy. signals, wigwags, bells	410	186	188	433	194	172	1,583
Special warning devices	971	585	624	1,539	550	422	4,691
Stop signs	6,474	1,740	1,223	1,307	164	58	10,966
Crossbucks	53,577	9,294	7,089	8,717	1,660	764	81,101
Other signs	207	90	81	96	23	9	506
No signs or signals	3,218	775	684	1,137	302	132	6,248
Total	73,072	19,197	18,154	34,636	10,834	8,024	163,917

TABLE 59. TOTAL CROSSINGS BY TRUCK TRAFFIC AS A PERCENTAGE OF ANNUAL AVERAGE DAILY TRAFFIC, 1995

%	Crossings
<1	6,033
1-5	75,254
6-10	49,404
11-15	15,387
16-20	8,228
21-25	2,105
26-30	4,567
31-35	493
36-40	963
41-45	102
46-50	898
51-55	19
56-60	157
61-65	9
66-70	49
71-75	104
76-80	70
81-85	9
86-90	46
91-95	3
96-99	17
Total	163,917

TABLE 60. PUBLIC CROSSINGS BY CROSSING SURFACE, 1995

State	Section Timber	Full Wood Plank	Asphalt	Concrete Slab	Concrete Pavement	Rubber	Metal Sections	Other Metal	Unconsol-idated	Other
Alabama	124	170	3,017	7	1	49	1	1	239	1
Alaska	11	92	52	6	0	59	0	0	1	4
Arizona	175	183	383	3	1	132	0	0	61	2
Arkansas	863	235	1,478	130	7	11	2	2	548	4
California	811	1,244	5,446	144	30	120	0	0	129	32
Colorado	697	415	607	31	4	132	7	23	143	10
Connecticut	109	0	115	2	0	142	2	0	0	0
Delaware	3	0	216	15	1	48	0	0	1	0
Dist Of Columbia	6	4	10	0	1	2	0	0	0	0
Florida	1,203	50	2,085	302	33	239	8	1	106	39
Georgia	120	122	5,384	15	18	16	1	1	484	2
Hawaii	0	0	6	0	0	0	0	0	0	0
Idaho	286	642	408	84	1	31	0	0	65	7
Illinois	1,863	1,487	4,790	47	39	874	7	7	1,086	19
Indiana	809	98	5,032	28	13	391	9	0	202	5
Iowa	121	1,200	2,158	10	10	332	1	2	1,308	103
Kansas	2,293	2,265	1,114	120	37	129	7	1	1,887	12
Kentucky	299	306	1,455	1	6	87	1	3	468	0
Louisiana	691	557	1,402	150	8	450	1	4	392	1
Maine	53	215	598	0	0	9	0	0	7	0
Maryland	200	70	329	1	6	63	0	0	15	3
Massachusetts	64	29	992	8	0	84	0	0	15	0
Michigan	1,384	420	3,018	11	11	439	90	1	369	18
Minnesota	264	2,560	1,742	17	9	284	1	1	284	12
Mississippi	160	361	1,554	10	4	136	1	1	742	2
Missouri	1,508	750	1,598	21	3	80	2	1	883	18
Montana	28	1,145	285	17	2	11	0	8	20	17
Nebraska	844	731	641	123	40	56	2	2	1,580	15
Nevada	19	59	65	67	0	44	1	0	20	14
New Hampshire	12	57	419	1	0	7	0	0	6	1
New Jersey	153	8	1,430	13	16	83	0	58	67	35
New Mexico	444	184	49	1	2	34	0	0	96	0
New York	416	156	2,283	8	15	287	0	2	92	16
North Carolina	22	47	4,434	6	12	32	1	1	298	6
North Dakota	126	3,546	476	19	2	39	0	2	410	4
Ohio	1,410	117	4,591	13	12	239	0	2	148	19
Oklahoma	1,793	619	951	124	15	55	0	6	970	28
Oregon	477	118	1,313	17	23	60	0	0	41	253
Pennsylvania	949	77	3,779	59	243	100	1	16	355	4
Rhode Island	1	1	79	0	10	36	0	1	0	0
South Carolina	31	1	2,962	25	5	8	0	1	70	6
South Dakota	13	1,424	444	1	1	118	0	0	86	50
Tennessee	105	239	2,687	5	5	106	3	0	212	6
Texas	4,632	1,175	4,157	398	105	303	5	18	1,665	32
Utah	219	231	383	50	5	29	3	2	83	4
Vermont	34	43	331	0	1	11	0	0	75	1
Virginia	228	54	1,689	4	2	16	4	8	116	17
Washington	124	1,136	1,299	77	12	173	0	0	30	3
West Virginia	803	10	738	2	3	10	0	1	324	2
Wisconsin	60	353	3,728	13	21	310	1	1	224	1
Wyoming	40	197	137	2	1	29	0	0	115	6
Puerto Rico	0	0	22	0	0	0	0	0	2	0
FINAL TOTALS	27,100	25,203	84,361	2,208	796	6,535	162	178	16,540	834

TABLE 61. TOTAL CROSSINGS BY MAXIMUM TIME TABLE SPEED, WARNING DEVICE CATEGORY AND NUMBER OF TRACKS, 1995

SINGLE TRACK WARNING DEVICES	MAXIMUM TIME TABLE SPEED 00-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100	101-110	>110	TOTAL
GATES	1327	1770	2551	2407	2034	1828	1186	1051	41	4	1	0	14200
FLASHING LIGHTS	4468	3061	5367	3627	2373	1460	307	331	12	0	0	0	21006
HWY. SIGNALS, WIGWAGS, BELLS	376	162	196	123	49	54	11	9	1	0	1	0	982
SPECIAL WARNING DEVICES	2274	523	252	80	58	21	13	21	12	2	0	0	3256
STOP SIGNS	1195	847	1879	1627	1072	810	259	341	2	0	0	0	8032
CROSSBUCKS	12766	7125	16870	11609	6273	4484	918	1146	121	0	1	0	61313
OTHER SIGNS	175	94	62	15	12	0	3	3	0	0	0	0	364
NO SIGNS OR SIGNALS	2504	930	735	315	120	103	35	28	4	0	0	0	4774
TOTAL	25085	14512	27912	19803	11991	8760	2732	2930	193	6	3	0	113927

MULTIPLE TRACKS WARNING DEVICES	MAXIMUM TIME TABLE SPEED 00-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100	101-110	>110	TOTAL
GATES	985	1523	2380	2419	2283	2188	1891	1895	144	2	2	0	15712
FLASHING LIGHTS	1718	1181	1795	1338	845	635	207	177	8	0	0	0	7904
HWY. SIGNALS, WIGWAGS, BELLS	168	114	123	72	38	38	28	16	4	0	0	0	601
SPECIAL WARNING DEVICES	942	235	139	45	26	26	6	12	3	1	0	0	1435
STOP SIGNS	517	371	511	469	356	282	197	229	2	0	0	0	2934
CROSSBUCKS	5081	2947	4267	2713	1688	1407	833	741	111	0	0	0	19788
OTHER SIGNS	55	32	22	17	14	1	1	0	0	0	0	0	142
NO SIGNS OR SIGNALS	820	313	154	67	44	37	16	23	0	0	0	0	1474
TOTAL	10286	6716	9391	7140	5294	4614	3179	3093	272	3	2	0	49990

ALL CROSSINGS WARNING DEVICES	MAXIMUM TIME TABLE SPEED 00-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100	101-110	>110	TOTAL
GATES	2312	3293	4931	4826	4317	4016	3077	2946	185	6	3	0	29912
FLASHING LIGHTS	6186	4242	7162	4965	3218	2095	514	508	20	0	0	0	28910
HWY. SIGNALS, WIGWAGS, BELLS	544	276	319	195	87	92	39	25	5	0	1	0	1583
SPECIAL WARNING DEVICES	3216	758	391	125	84	47	19	33	15	3	0	0	4691
STOP SIGNS	1712	1218	2390	2096	1428	1092	456	570	4	0	0	0	10966
CROSSBUCKS	17847	10072	21137	14322	7961	5891	1751	1887	232	0	1	0	81101
OTHER SIGNS	230	126	84	32	26	1	4	3	0	0	0	0	506
NO SIGNS OR SIGNALS	3324	1243	889	382	164	140	51	51	4	0	0	0	6248
TOTAL	35371	21228	37303	26943	17285	13374	5911	6023	465	9	5	0	163917

(D A T A)

SUMMARY OF ACCIDENT/INCIDENT

AND

INVENTORY

FOR

PRIVATE CROSSINGS

TABLE 62. (MV) ACCIDENTS/INCIDENTS AT PRIVATE HIGHWAY-RAIL CROSSINGS BY TYPE OF CONSISTS, 1995

State	----Freight----			---Passenger---			-Yard Switching			-----Other-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Alabama	7	---	2	---	---	---	1	---	---	2	---	---
Alaska	---	---	---	---	---	---	---	---	---	---	---	---
Arizona	4	---	1	---	---	---	---	---	---	---	---	---
Arkansas	8	---	4	---	---	---	---	---	---	3	---	1
California	18	2	10	2	1	---	6	---	1	4	---	1
Colorado	4	---	1	1	1	---	---	---	---	1	---	1
Connecticut	---	---	---	---	---	---	---	---	---	---	---	---
Delaware	2	---	---	---	---	---	---	---	---	---	---	---
Dist. of Columbia	---	---	---	---	---	---	---	---	---	---	---	---
Florida	3	---	1	2	1	2	---	---	---	1	---	---
Georgia	9	---	3	1	1	---	---	---	---	2	---	---
Idaho	1	---	---	---	---	---	---	---	---	---	---	---
Illinois	14	1	6	3	---	2	6	---	---	3	---	1
Indiana	8	---	---	---	---	---	7	---	2	1	---	---
Iowa	3	1	---	---	---	---	2	---	---	---	---	---
Kansas	4	1	2	---	---	---	---	---	---	5	---	3
Kentucky	14	1	4	---	---	---	---	---	---	---	---	---
Louisiana	11	---	4	---	---	---	4	---	3	3	---	1
Maine	1	---	---	---	---	---	3	---	---	1	---	---
Maryland	---	---	---	---	---	---	1	---	---	---	---	---
Massachusetts	---	---	---	1	---	1	---	---	---	---	---	---
Michigan	3	---	---	1	---	---	---	---	---	2	---	2
Minnesota	6	2	2	---	---	---	3	---	---	1	---	---
Mississippi	9	1	3	2	1	---	1	---	1	---	---	---
Missouri	10	---	2	---	---	---	---	---	---	2	---	2
Montana	4	---	---	---	---	---	1	---	---	---	---	---
Nebraska	7	1	1	---	---	---	2	---	1	5	---	---
Nevada	3	4	---	---	---	---	---	---	---	---	---	---
New Hamshire	---	---	---	---	---	---	---	---	---	---	---	---
New Jersey	1	---	1	2	1	---	1	---	---	---	---	---
New Mexico	2	1	---	---	---	---	---	---	---	---	---	---
New York	3	---	---	2	---	3	2	---	1	1	---	---
North Carolina	9	---	---	1	1	---	1	---	---	1	---	2
North Dakota	2	---	1	---	---	---	---	---	---	---	---	---
Ohio	13	2	2	---	---	---	2	---	1	1	---	---
Oklahoma	4	---	---	---	---	---	1	---	1	---	---	---
Oregon	3	2	---	1	7	---	1	---	---	---	---	---
Pennsylvania	7	3	---	---	---	---	---	---	---	2	---	---
Rhode Island	---	---	---	---	---	---	---	---	---	---	---	---
South Carolina	7	---	1	---	---	---	2	---	---	1	---	---
South Dakota	---	---	---	---	---	---	---	---	---	---	---	---
Tennessee	9	2	2	---	---	---	1	---	---	---	---	---
Texas	40	7	14	---	---	---	5	---	2	4	---	3
Utah	3	---	1	---	---	---	---	---	---	---	---	---
Vermont	1	---	1	---	---	---	---	---	---	---	---	---
Virginia	16	1	7	---	---	---	1	---	---	2	---	2
Washington	16	2	4	3	1	4	11	---	1	1	---	---
West Virginia	5	---	1	---	---	---	1	---	---	1	---	---
Wisconsin	6	4	2	---	---	---	1	---	---	---	---	---
Wyoming	5	---	1	---	---	---	---	---	---	---	---	---
Unknown	---	---	---	---	---	---	---	---	---	---	---	---
Total	305	38	84	22	15	12	67	---	14	50	---	19

Note: "Other" includes mixed trains, work trains, light locomotives, single car or cut of cars

TABLE 63. (MV) ACCIDENTS/INCIDENTS AT PRIVATE HIGHWAY-RAIL CROSSINGS, BY STATE AND WARNING DEVICE, 1995

State	Gates	Flashing Lights	Hwy Sig. Wigwags Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs Or Signals	Total
Alabama	---	---	---	---	2	2	---	6	10
Alaska	---	---	---	---	---	---	---	---	---
Arizona	---	---	---	1	---	3	---	---	4
Arkansas	---	---	---	---	4	3	---	4	11
California	---	1	1	3	3	16	---	6	30
Colorado	---	---	---	---	4	1	---	1	6
Connecticut	---	---	---	---	---	---	---	---	---
Delaware	---	1	---	---	1	---	---	---	2
Dist. of Columbia	---	---	---	---	---	---	---	---	---
Florida	---	---	---	---	3	2	---	1	6
Georgia	---	1	---	---	11	---	---	---	12
Idaho	---	---	---	---	1	---	---	---	1
Illinois	---	1	---	1	7	5	---	12	26
Indiana	1	---	---	3	2	1	---	9	16
Iowa	---	1	---	---	1	---	---	3	5
Kansas	---	---	---	---	7	---	---	2	9
Kentucky	---	---	---	---	7	---	---	7	14
Louisiana	---	---	---	---	11	2	1	4	18
Maine	---	---	---	2	---	1	---	2	5
Maryland	---	---	---	---	---	---	---	1	1
Massachusetts	---	---	---	---	---	---	---	1	1
Michigan	---	1	---	---	2	---	---	3	6
Minnesota	---	---	---	1	---	3	---	6	10
Mississippi	---	2	---	---	7	1	---	2	12
Missouri	---	---	---	---	3	2	---	7	12
Montana	---	---	---	---	1	2	1	1	5
Nebraska	---	---	---	---	---	3	---	11	14
Nevada	---	---	---	---	1	2	---	---	3
New Hamshire	---	---	---	---	---	---	---	---	---
New Jersey	1	1	---	---	---	---	---	2	4
New Mexico	---	---	---	---	2	---	---	---	2
New York	---	1	1	---	---	---	---	6	8
North Carolina	---	---	---	---	7	---	---	5	12
North Dakota	---	---	---	---	---	2	---	---	2
Ohio	1	1	---	1	3	1	---	9	16
Oklahoma	---	---	---	1	3	1	---	---	5
Oregon	---	---	1	---	1	2	---	1	5
Pennsylvania	---	---	---	---	2	2	1	4	9
Rhode Island	---	---	---	---	---	---	---	---	---
South Carolina	---	1	---	---	7	---	---	2	10
South Dakota	---	---	---	---	---	---	---	---	---
Tennessee	1	1	---	1	2	1	---	4	10
Texas	1	2	---	1	20	20	---	5	49
Utah	---	---	---	---	1	---	1	1	3
Vermont	---	---	---	---	---	---	---	1	1
Virginia	---	1	---	---	9	2	---	7	19
Washington	---	---	---	1	4	16	---	10	31
West Virginia	---	1	---	---	2	1	---	3	7
Wisconsin	---	1	---	---	2	3	---	1	7
Wyoming	---	---	---	---	---	5	---	---	5
Unknown	---	---	---	---	---	---	---	---	---
Total	5	18	3	16	143	105	4	150	444

Note: "Special" are crossings protected by watchmen or members of train crew

TABLE 64. ACCIDENTS/INCIDENTS AT PRIVATE HIGHWAY-RAIL CROSSINGS, BY HIGHWAY USER, 1995

Type Of Vehicle	----Acc/Inc--- No.	%	-----Killed---- No.	%	----Injured---- No.	%	Fatal Acc/Inc	Injury Acc/Inc
Automobile.....	198	41.25	25	45.45	56	40.00	19	45
Truck.....	154	32.08	26	47.27	51	36.43	14	32
Truck-trailer....	92	19.17	2	3.64	22	15.71	2	16
Bus.....	---	---	---	---	---	---	---	---
School bus.....	---	---	---	---	---	---	---	---
Motorcycle.....	---	---	---	---	---	---	---	---
Pedestrian.....	1	.21	---	---	1	.71	---	1
Other.....	35	7.29	2	3.64	10	7.14	2	8
Total.....	480	100.00	55	100.00	140	100.00	37	102

TABLE 65. (MV) ACCIDENTS/INCIDENTS AT PRIVATE HIGHWAY-RAIL CROSSINGS, BY WARNING DEVICE CATEGORY AND MOTORIST ACTION, 1995

Warning Device	--Drove Around--Or Thru Gate-- A/I	Kld	Inj	--Stopped And--Then Proceeded A/I	Kld	Inj	-Did Not Stop-- A/I	Kld	Inj	-----Other----- A/I	Kld	Inj	----Unknown---- A/I	Kld	Inj	-----Total----- A/I	Kld	Inj
Gates.....	1	---	---	---	---	---	---	---	---	4	---	---	---	---	---	5	---	---
Cantilever flshrs	---	---	---	---	---	---	1	---	---	2	---	---	---	---	---	3	---	---
Standard flashers	---	---	---	---	---	---	10	1	5	5	---	---	---	---	---	15	1	5
Hwy Sig,W W,Bells	---	---	---	---	---	---	1	---	3	2	---	---	---	---	---	3	---	3
Special Devices..	---	---	---	1	---	---	15	---	3	---	---	---	---	---	---	16	---	3
Crossbucks.....	---	---	---	7	---	---	79	5	40	54	4	4	3	1	---	143	10	44
Stopsigns.....	---	---	---	13	1	4	59	27	32	26	1	4	7	---	---	105	29	40
Other Signs.....	---	---	---	---	---	---	3	1	---	1	---	---	---	---	---	4	1	---
No Signs Or Signl	---	---	---	11	---	2	75	7	17	60	4	15	4	1	---	150	12	34
Total.....	1	---	---	32	1	6	243	41	100	154	9	23	14	2	---	444	53	129

Note: "Special" are crossings protected by watchmen or members of train crew.
"Hwy Sig" = Highway signals, W W = Wigwags.

TABLE 66. (MV) ACCIDENTS/INCIDENTS AT PRIVATE HIGHWAY-RAIL CROSSINGS, BY SPEED OF TRAIN, CIRCUMSTANCE AND VISIBILITY, 1995

Speed Of Vehicle	Dawn			Day			Dusk			Dark			Total		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
RAIL CONSIST STRUCK HIGHWAY USER															
Standing	3	---	2	74	9	13	8	---	---	71	2	4	156	11	19
1-9	1	---	1	114	14	50	3	---	1	24	3	4	142	17	56
10-19	1	---	---	54	18	23	2	---	1	15	1	5	72	19	29
20-29	2	---	1	5	2	2	---	---	---	4	---	1	11	2	4
30-39	---	---	---	5	1	4	1	---	1	3	---	2	9	1	7
40-49	---	---	---	2	---	1	---	---	---	---	---	---	2	---	1
50-59	---	---	---	1	---	1	---	---	---	---	---	---	1	---	1
60 and over	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown	---	---	---	11	2	---	---	---	---	2	---	1	13	2	1
Total	7	---	4	266	46	94	14	---	3	119	6	17	406	52	118
HIGHWAY USER STRUCK RAIL CONSIST															
Standing	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1-9	2	---	---	6	---	1	---	---	---	1	---	---	9	---	1
10-19	1	---	---	9	1	4	1	---	---	6	---	3	17	1	7
20-29	---	---	---	1	---	---	---	---	---	1	---	---	2	---	---
30-39	---	---	---	---	---	---	---	---	---	1	---	---	1	---	---
40-49	---	---	---	1	---	---	---	---	---	1	---	1	2	---	1
50-59	---	---	---	---	---	---	---	---	---	1	---	1	1	---	1
60 and over	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown	---	---	---	4	---	1	---	---	---	2	---	---	6	---	1
Total	3	---	---	21	1	6	1	---	---	13	---	5	38	1	11
GRAND TOTAL															
Standing	3	---	2	74	9	13	8	---	---	71	2	4	156	11	19
1-9	3	---	1	120	14	51	3	---	1	25	3	4	151	17	57
10-19	2	---	---	63	19	27	3	---	1	21	1	8	89	20	36
20-29	2	---	1	6	2	2	---	---	---	5	---	1	13	2	4
30-39	---	---	---	5	1	4	1	---	1	4	---	2	10	1	7
40-49	---	---	---	3	---	1	---	---	---	1	---	1	4	---	2
50-59	---	---	---	1	---	1	---	---	---	1	---	1	2	---	2
60 and over	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown	---	---	---	15	2	1	---	---	---	4	---	1	19	2	2
Total	10	---	4	287	47	100	15	---	3	132	6	22	444	53	129

TABLE 67. (MV) ACCIDENTS/INCIDENTS AT PRIVATE HIGHWAY-RAIL CROSSINGS, BY RAILROAD AND WARNING DEVICE CATEGORY, 1995

Railroad	Gates	Flashing Lights	Hwy Sig. Wigwags Bells	Special	Cross-Bucks	Stop Signs	Other Signs	No Signs Or Signals	Total
Alaska Railroad Corp.	---	---	---	---	---	---	---	---	---
Alton & Southern Railroad	---	---	---	---	---	---	---	---	---
Amtrak (Nat'l Railroad Passenger Corp.)	---	---	2	---	6	3	---	4	15
Atchison, Topeka And Santa Fe Railway Co.	---	---	---	2	15	2	---	4	23
Bangor And Aroostook Railroad	---	---	---	---	---	---	---	2	2
Belt Railway Co. of Chicago	---	---	---	---	---	---	---	---	---
Bessemer & Lake Erie Railroad Co.	---	---	---	---	1	---	---	---	1
Birmingham Southern Railroad Co.	---	---	---	---	---	---	---	---	---
Burlington Northern Railroad Co.	---	---	1	3	10	35	---	25	74
Chicago And North Western Transp.	---	---	---	---	1	---	---	2	3
Chicago, Central & Pacific Railroad Co.	---	---	---	---	---	---	---	1	1
Consolidated Rail Corp.	1	3	---	2	2	2	1	12	23
CSX Transp.	---	2	---	---	20	3	---	16	41
Dakota, Minnesota & Eastern Railroad	---	---	---	---	---	---	---	1	1
Delaware And Hudson Railroad Co.	---	1	---	---	---	---	---	4	5
Denver And Rio Grande Western Railroad Co.	---	---	---	---	2	---	---	---	2
Duluth, Missabe & Iron Range Railway Co.	---	---	---	---	---	---	---	---	---
Elgin, Joliet And Eastern Railway Co.	---	---	---	1	1	1	---	3	6
Florida East Coast Railway Co.	---	---	---	---	---	---	---	---	---
Gateway Western Railway	---	---	---	---	---	---	---	1	1
Grand Trunk Western Railroad Co.	---	1	---	---	---	---	---	---	1
Houston Belt & Terminal Railway Co.	---	---	---	---	---	---	---	---	---
Illinois Central Railroad Co.	---	---	---	---	3	1	1	3	8
Indiana Harbor Belt Railroad Co.	---	---	---	---	---	---	---	1	1
Kansas City Southern Railway Co.	---	3	---	---	15	---	---	---	18
Long Island Rail Road	---	---	---	---	---	---	---	---	---
Metro North Commuter Railroad Co.	---	---	---	---	---	---	---	---	---
Montana Rail Link	---	---	---	---	1	1	1	1	4
New Jersey Transit Rail Operations	1	---	---	---	---	---	---	1	2
Norfolk Southern Corp.	1	3	---	2	32	7	---	33	78
Northeast Illinois Regional Commuter Rail	---	1	---	---	1	---	---	1	3
Northern Indiana Commuter Trans.	---	---	---	---	---	---	---	---	---
Paducah & Louisville Railway Co.	---	---	---	---	---	---	---	---	---
Port Authority Trans Hudson	---	---	---	---	---	---	---	---	---
Port Terminal Railroad Assoc.	---	1	---	---	2	1	---	---	4
Soo Line Railroad Co.	---	1	---	---	1	1	---	5	8
Southeastern Pennsylvania Transp.	---	---	---	---	---	---	---	---	---
Southern Pacific Transp. Co.	1	1	---	3	8	21	---	5	39
Southern Pacific, Chicago-St. Louis Corp.	---	---	---	---	---	---	---	---	---
Springfield Terminal Railway Co.	---	---	---	2	---	1	---	---	3
St. Louis Southwestern Railway Co.	---	---	---	---	1	2	---	---	3
Terminal Railroad Assoc. of St. Louis	---	---	---	---	---	---	---	---	---
Texas Mexican Railway Co.	---	---	---	---	---	---	---	---	---
Union Pacific Railroad Co.	---	---	---	1	12	16	1	17	47
Union Railroad Company (Pittsburgh)	---	---	---	---	---	---	---	---	---
Wheeling & Lake Erie Railway Co.	---	---	---	---	1	---	---	---	1
Wisconsin Central Ltd.	---	1	---	---	2	2	---	---	5
All Other Railroads.....	1	---	---	---	6	6	---	8	21
Total.....	5	18	3	16	143	105	4	150	444

Note: "Special" are crossings protected by watchmen or members of train crew.

TABLE 68. ACCIDENTS/INCIDENTS AND CASUALTIES AT PRIVATE HIGHWAY-RAIL CROSSINGS, BY RAILROAD, 1995

Railroad	Motor Vehicle			Other Highway Users			Total		
	Acc/Inc	Killed	Injured	Acc/Inc	Killed	Injured	Acc/Inc	Killed	Injured
Alaska Railroad Corp.	---	---	---	---	---	---	---	---	---
Alton & Southern Railroad	---	---	---	---	---	---	---	---	---
Amtrak (Nat'l Railroad Passenger Corp.)	15	14	6	1	---	---	16	14	6
Atchison, Topeka And Santa Fe Railway Co.	23	3	7	3	---	2	26	3	9
Bangor And Aroostook Railroad	2	---	---	---	---	---	2	---	---
Belt Railway Co. of Chicago	---	---	---	---	---	---	---	---	---
Bessemer & Lake Erie Railroad Co.	1	---	---	---	---	---	1	---	---
Birmingham Southern Railroad Co.	---	---	---	---	---	---	---	---	---
Burlington Northern Railroad Co.	74	10	16	5	---	---	79	10	16
Chicago And North Western Transp.	3	---	---	---	---	---	3	---	---
Chicago, Central & Pacific Railroad Co.	1	---	---	---	---	---	1	---	---
Consolidated Rail Corp.	23	2	1	1	---	---	24	2	1
CSX Transp.	41	2	11	2	---	---	43	2	11
Dakota, Minnesota & Eastern Railroad	1	---	---	---	---	---	1	---	---
Delaware And Hudson Railroad Co.	5	1	2	1	1	---	6	2	2
Denver And Rio Grande Western Railroad Co.	2	---	1	---	---	---	2	---	1
Duluth, Missabe & Iron Range Railway Co.	---	---	---	---	---	---	---	---	---
Elgin, Joliet And Eastern Railway Co.	6	---	2	---	---	---	6	---	2
Florida East Coast Railway Co.	---	---	---	---	---	---	---	---	---
Gateway Western Railway	1	---	---	---	---	---	1	---	---
Grand Trunk Western Railroad Co.	1	---	2	2	---	1	3	---	3
Houston Belt & Terminal Railway Co.	---	---	---	---	---	---	---	---	---
Illinois Central Railroad Co.	8	---	2	---	---	---	8	---	2
Indiana Harbor Belt Railroad Co.	1	---	---	---	---	---	1	---	---
Kansas City Southern Railway Co.	18	---	4	1	---	3	19	---	7
Long Island Rail Road	---	---	---	---	---	---	---	---	---
Metro North Commuter Railroad Co.	---	---	---	---	---	---	---	---	---
Montana Rail Link	4	---	---	---	---	---	4	---	---
New Jersey Transit Rail Operations	2	1	---	---	---	---	2	1	---
Norfolk Southern Corp.	78	6	22	5	---	1	83	6	23
Northeast Illinois Regional Commuter Rail	3	---	2	---	---	---	3	---	2
Northern Indiana Commuter Trans.	---	---	---	---	---	---	---	---	---
Paducah & Louisville Railway Co.	---	---	---	1	---	1	1	---	1
Port Authority Trans Hudson	---	---	---	---	---	---	---	---	---
Port Terminal Railroad Assoc.	4	---	2	---	---	---	4	---	2
Soo Line Railroad Co.	8	2	2	4	---	1	12	2	3
Southeastern Pennsylvania Transp.	---	---	---	---	---	---	---	---	---
Southern Pacific Transp. Co.	39	6	18	---	---	---	39	6	18
Southern Pacific, Chicago-St. Louis Corp.	---	---	---	---	---	---	---	---	---
Springfield Terminal Railway Co.	3	---	---	---	---	---	3	---	---
St. Louis Southwestern Railway Co.	3	1	---	---	---	---	3	1	---
Terminal Railroad Assoc. of St. Louis	---	---	---	---	---	---	---	---	---
Texas Mexican Railway Co.	---	---	---	---	---	---	---	---	---
Union Pacific Railroad Co.	47	5	23	2	---	1	49	5	24
Union Railroad Company (Pittsburgh)	---	---	---	---	---	---	---	---	---
Wheeling & Lake Erie Railway Co.	1	---	---	1	---	1	2	---	1
Wisconsin Central Ltd.	5	---	4	---	---	---	5	---	4
All Other Railroads.....	21	---	2	7	1	---	28	1	2
Total.....	444	53	129	36	2	11	480	55	140

TABLE 69. (MV) ACCIDENTS/INCIDENTS AND CASUALTIES AT PRIVATE HIGHWAY-RAIL CROSSINGS, BY SPEED OF CONSIST, 1995

Speed Of Consist	----Freight----			---Passenger---			-Yard Switching			-----Other-----			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
Standing.....	4	---	---	---	---	---	2	---	---	---	---	---	6	---	---
1-9.....	42	---	3	1	---	1	54	---	10	28	---	4	125	---	18
10-19.....	26	---	3	1	---	---	9	---	3	12	---	4	48	---	10
20-29.....	34	---	11	3	---	4	2	---	1	2	---	3	41	---	19
30-39.....	63	1	19	2	---	2	---	---	---	4	---	5	69	1	26
40-49.....	86	25	33	3	1	---	---	---	---	3	---	3	92	26	36
50-59.....	33	9	8	1	---	---	---	---	---	1	---	---	35	9	8
60-69.....	14	2	6	3	3	---	---	---	---	---	---	---	17	5	6
70-79.....	3	1	1	6	10	---	---	---	---	---	---	---	9	11	1
80-89.....	---	---	---	1	1	2	---	---	---	---	---	---	1	1	2
90 and over.....	---	---	---	1	---	3	---	---	---	---	---	---	1	---	3
Unknown.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total.....	305	38	84	22	15	12	67	---	14	50	---	19	444	53	129

Note: "Other" includes mixed trains, work trains, light locomotives, single car or cut of cars

TABLE 70. (MV) ACCIDENTS/INCIDENTS AND CASUALTIES AT PRIVATE HIGHWAY-RAIL CROSSINGS, BY LENGTH OF CONSIST, 1995

Number Of Cars	----Freight----			---Passenger---			-Yard Switching			-----Other-----			-----Total-----		
	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj	A/I	Kld	Inj
1-9.....	40	1	7	18	12	12	37	---	8	4	---	3	99	13	30
10-19.....	27	2	6	3	2	---	12	---	2	2	---	1	44	4	9
20-29.....	31	5	8	---	---	---	8	---	2	---	---	---	39	5	10
30-39.....	27	6	9	---	---	---	4	---	2	---	---	---	31	6	11
40-49.....	23	1	6	1	1	---	1	---	---	---	---	---	25	2	6
50-59.....	26	2	11	---	---	---	2	---	---	---	---	---	28	2	11
60-69.....	12	5	5	---	---	---	1	---	---	---	---	---	13	5	5
70-79.....	21	4	5	---	---	---	---	---	---	---	---	---	21	4	5
80-89.....	18	1	6	---	---	---	---	---	---	---	---	---	18	1	6
90-99.....	23	2	5	---	---	---	---	---	---	---	---	---	23	2	5
100-109.....	18	2	4	---	---	---	---	---	---	---	---	---	18	2	4
110-119.....	25	7	8	---	---	---	---	---	---	---	---	---	25	7	8
120-129.....	4	---	---	---	---	---	---	---	---	---	---	---	4	---	---
130-139.....	3	---	1	---	---	---	---	---	---	---	---	---	3	---	1
140-149.....	3	---	1	---	---	---	---	---	---	---	---	---	3	---	1
150 And over.....	2	---	1	---	---	---	---	---	---	---	---	---	2	---	1
Locomotives only.	2	---	1	---	---	---	2	---	---	44	---	15	48	---	16
Total.....	305	38	84	22	15	12	67	---	14	50	---	19	444	53	129

Note: "Other" includes mixed trains, work trains, light locomotives, single car or cut of cars

TABLE 71. (MV) ACCIDENTS/INCIDENTS AT PRIVATE HIGHWAY-RAIL CROSSINGS, BY OPERATIONAL STATUS OF WARNING DEVICE, CIRCUMSTANCE AND VISIBILITY, 1995

				Highway User							
	-Device Working-			Struck By Consist				Ran Into Consist			
Warning Device	Yes	No	N/A	Dawn	Day	Dusk	Dark	Dawn	Day	Dusk	Dark
Gates.....	5	---	---	---	2	---	2	---	---	---	1
Cantilever flshrs	2	---	1	---	1	---	1	1	---	---	---
Standard flashers	15	---	---	---	7	---	3	---	3	---	2
Hwy Sig,W W,Bells	3	---	---	---	3	---	---	---	---	---	---
Special Devices..	---	---	16	1	4	---	5	---	2	---	4
Crossbucks.....	---	---	143	1	84	9	35	2	8	---	4
Stopsigns.....	---	---	105	3	68	2	27	---	4	---	1
Other Signs.....	---	---	4	---	4	---	---	---	---	---	---
No Signs Or Signl	---	---	150	2	93	3	46	---	4	1	1
Total.....	25	---	419	7	266	14	119	3	21	1	13

Note: If a rail consist is intentionally grounded to prevent activation of the warning device, these are reported as "N/A."

TABLE 72. PRIVATE CROSSINGS AT-GRADE BY STATE AND TYPE DEVELOPMENT, 1995

State	Farm	Residential	Recreational	Industrial	Unknown	Total
Alabama	1,278	227	14	463	0	1,982
Alaska	4	14	5	81	0	104
Arizona	395	24	13	254	0	686
Arkansas	1,002	219	17	269	0	1,507
California	2,140	342	122	2,258	9	4,871
Colorado	897	258	23	264	6	1,448
Connecticut	49	30	32	149	1	261
Delaware	62	34	4	19	0	119
Dist Of Columbia	0	0	0	8	0	8
Florida	391	206	32	446	405	1,480
Georgia	1,542	647	32	554	0	2,775
Idaho	871	61	11	433	0	1,376
Illinois	3,755	506	77	1,346	0	5,684
Indiana	1,887	328	29	598	4	2,846
Iowa	3,149	328	51	688	1	4,217
Kansas	3,589	207	8	427	1	4,232
Kentucky	1,576	755	18	412	0	2,761
Louisiana	1,731	504	21	965	1	3,222
Maine	410	118	77	329	0	934
Maryland	404	79	17	212	0	712
Massachusetts	169	68	39	261	0	537
Michigan	1,330	395	125	867	0	2,717
Minnesota	2,261	239	50	583	0	3,133
Mississippi	1,409	409	6	275	0	2,099
Missouri	2,333	337	27	593	1	3,291
Montana	1,625	108	23	302	0	2,058
Nebraska	2,497	86	13	240	0	2,836
Nevada	28	3	6	35	193	265
New Hampshire	152	87	23	82	0	344
New Jersey	199	62	12	322	1	596
New Mexico	442	32	4	111	0	589
New York	2,152	338	99	588	0	3,177
North Carolina	1,753	905	34	887	1	3,580
North Dakota	1,956	26	10	188	0	2,180
Ohio	2,428	334	42	899	1	3,704
Oklahoma	1,327	151	10	247	0	1,735
Oregon	1,350	334	41	1,091	0	2,816
Pennsylvania	1,453	520	157	1,288	0	3,418
Rhode Island	7	18	9	37	0	71
South Carolina	726	299	15	308	0	1,348
South Dakota	1,143	81	3	134	0	1,361
Tennessee	1,111	394	22	391	0	1,918
Texas	4,257	508	36	1,559	3	6,363
Utah	524	46	10	209	0	789
Vermont	450	62	29	109	0	650
Virginia	645	189	13	303	1,773	2,923
Washington	1,446	401	55	1,112	0	3,014
West Virginia	888	658	46	627	1	2,220
Wisconsin	1,886	222	59	701	0	2,868
Wyoming	779	16	0	137	0	932
Puerto Rico	2	0	0	0	0	2
FINAL TOTALS	63,860	12,215	1,621	24,661	2,402	104,759

TABLE 73. PRIVATE CROSSINGS AT-GRADE BY STATE AND TYPE WARNING DEVICE, 1995

State	Signs	Signals	No Signs or Signals	Unknown	Total
Alabama	665	20	1,296	1	1,982
Alaska	68	0	36	0	104
Arizona	416	5	265	0	686
Arkansas	237	6	1,264	0	1,507
California	3,586	104	1,181	0	4,871
Colorado	764	11	673	0	1,448
Connecticut	211	42	8	0	261
Delaware	10	1	108	0	119
Dist Of Columbia	0	0	8	0	8
Florida	973	52	455	0	1,480
Georgia	1,424	12	1,338	1	2,775
Idaho	291	11	1,074	0	1,376
Illinois	573	104	5,007	0	5,684
Indiana	265	38	2,543	0	2,846
Iowa	676	15	3,526	0	4,217
Kansas	273	5	3,954	0	4,232
Kentucky	564	31	2,166	0	2,761
Louisiana	409	31	2,782	0	3,222
Maine	291	16	627	0	934
Maryland	143	9	560	0	712
Massachusetts	174	13	350	0	537
Michigan	315	35	2,367	0	2,717
Minnesota	1,101	19	2,013	0	3,133
Mississippi	202	5	1,892	0	2,099
Missouri	249	26	3,016	0	3,291
Montana	512	9	1,537	0	2,058
Nebraska	157	6	2,673	0	2,836
Nevada	108	6	150	1	265
New Hampshire	49	4	291	0	344
New Jersey	157	13	426	0	596
New Mexico	230	3	356	0	589
New York	324	33	2,820	0	3,177
North Carolina	1,258	20	2,302	0	3,580
North Dakota	368	1	1,811	0	2,180
Ohio	323	40	3,341	0	3,704
Oklahoma	266	9	1,459	1	1,735
Oregon	933	23	1,859	1	2,816
Pennsylvania	760	38	2,620	0	3,418
Rhode Island	41	1	29	0	71
South Carolina	970	12	366	0	1,348
South Dakota	235	2	1,123	1	1,361
Tennessee	339	12	1,567	0	1,918
Texas	1,440	81	4,842	0	6,363
Utah	173	5	611	0	789
Vermont	72	6	572	0	650
Virginia	473	41	2,409	0	2,923
Washington	584	17	2,413	0	3,014
West Virginia	318	15	1,887	0	2,220
Wisconsin	400	20	2,448	0	2,868
Wyoming	308	5	619	0	932
Puerto Rico	1	1	0	0	2
FINAL TOTALS	24,679	1,034	79,040	6	104,759

TABLE 74. PRIVATE CROSSINGS AT-GRADE BY TYPE DEVELOPMENT AND WARNING DEVICE, 1995

State	Signs	Signals	No Signs or Signals	Unknown	Total
Farm.....	11,381	107	52,371	1	63,860
Residential.	3,983	80	8,152	0	12,215
Recreational	677	28	916	0	1,621
Industrial..	8,124	797	15,735	5	24,661
Unknown.....	514	22	1,866	0	2,402
FINAL TOTALS	24,679	1,034	79,040	6	104,759

TABLE 75. PRIVATE CROSSINGS AT-GRADE BY RAILROAD AND TYPE DEVELOPMENT, 1995

Railroad	Farm	Residential	Recreational	Industrial	Unknown	Total
Alaska Railroad Corp.	4	14	5	81	0	104
Alton & Southern Railroad	8	5	0	14	0	27
Amtrak (Nat'l Railroad Passenger Corp.)	35	13	3	16	1	68
Atchison, Topeka & Santa Fe Railway Co.	2,323	209	20	1,106	2	3,660
Bangor & Aroostook Railroad	184	35	48	118	0	385
Belt Railway Company Of Chicago	0	0	0	76	0	76
Bessemer & Lake Erie Railroad Co.	38	12	2	44	0	96
Birmingham Southern Railroad Co.	0	0	0	36	0	36
Burlington Northern Railroad Co.	9,110	973	132	2,239	2	12,456
Chicago and North Western Railway Co.	1,613	160	31	565	0	2,369
Chicago, Central & Pacific Railroad Co.	525	24	3	150	0	702
Consolidated Rail Corp.	3,842	886	214	1,995	2	6,939
CSX Transportation	5,106	1,862	158	2,639	823	10,588
Dakota, Minnesota & Eastern Railroad	480	7	1	66	0	554
Delaware & Hudson Railway Co.	305	49	37	55	0	446
Denver & Rio Grande Western Railroad Co.	310	175	16	168	4	673
Duluth, Missabe & Iron Range Railway Co.	24	17	1	87	0	129
Duluth, Winnipeg & Pacific Railway	4	5	7	5	0	21
Elgin, Joliet & Eastern Railway Co.	39	1	0	33	0	73
Florida East Coast Railway Co.	5	3	1	18	86	113
Gateway Western Railway	135	1	1	19	0	156
Grand Trunk Western Railroad Inc.	351	24	4	67	0	446
Houston Belt & Terminal Railway Co.	0	1	0	42	0	43
Illinois Central Railroad Co.	1,073	216	8	344	0	1,641
Indiana Harbor Belt Railroad Co.	0	2	0	41	0	43
Kansas City Southern Railway Co.	291	44	5	154	0	494
Long Island Rail Road	67	4	3	8	0	82
Metro North Commuter Railroad Co.	12	8	7	33	0	60
Montana Rail Link	467	63	15	139	0	684
New Jersey Transit Rail Operations	43	15	5	33	0	96
Norfolk Southern Corp.	6,016	2,128	74	1,911	1,140	11,269
Northeast Illinois Regional Comuter Rail Co.	3	3	1	3	0	10
Northern Indiana Commuter Transportation	8	2	0	15	0	25
Paducah & Louisville Railway Co.	118	30	1	36	0	185
Port Authority Trans Hudson	1	0	0	1	0	2
Port Terminal Railroad Assoc.	1	0	0	97	0	98
Soo Line Railroad Co.	2,002	255	51	472	0	2,780
Southeastern Pennsylvania Transportation	22	12	2	17	0	53
Southern Pacific Transportation Co.	2,035	328	104	2,007	87	4,561
Southern Pacific, Chicago-St. Louis Corp.	55	5	0	18	0	78
Springfield Terminal Railway Co.	108	31	6	138	0	283
St. Louis Southwestern Railway Co.	605	75	4	86	0	770
Terminal Railroad Association Of St. Louis	3	0	0	9	0	12
Union Pacific Railroad Co.	8,726	900	79	2,378	104	12,187
Union Railroad Company (Pittsburgh)	0	0	0	39	0	39
Wheeling & Lake Erie Railway Co.	231	42	6	163	0	442
Wisconsin Central Ltd. (also Railway)	715	100	24	323	0	1,162
All Unknown Railroads	16,817	3,476	542	6,557	151	27,543
FINAL TOTALS	63,860	12,215	1,621	24,661	2,402	104,759

TABLE 76. PRIVATE CROSSINGS AT-GRADE BY RAILROAD AND WARNING DEVICE, 1995

Railroad	Signs	Signals	No Signs or Signals	Unknown	Total
Alaska Railroad Corp.	68	0	36	0	104
Alton & Southern Railroad	4	0	23	0	27
Amtrak (Nat'l Railroad Passenger Corp.)	31	8	29	0	68
Atchison, Topeka & Santa Fe Railway Co.	1,160	47	2,453	0	3,660
Bangor & Aroostook Railroad	86	5	294	0	385
Belt Railway Company Of Chicago	25	2	49	0	76
Bessemer & Lake Erie Railroad Co.	11	0	85	0	96
Birmingham Southern Railroad Co.	11	3	22	0	36
Burlington Northern Railroad Co.	2,845	116	9,494	1	12,456
Chicago and North Western Railway Co.	363	13	1,993	0	2,369
Chicago, Central & Pacific Railroad Co.	268	2	432	0	702
Consolidated Rail Corp.	890	71	5,978	0	6,939
CSX Transportation	4,135	187	6,265	1	10,588
Dakota, Minnesota & Eastern Railroad	52	0	501	1	554
Delaware & Hudson Railway Co.	33	9	404	0	446
Denver & Rio Grande Western Railroad Co.	564	3	106	0	673
Duluth, Missabe & Iron Range Railway Co.	115	2	12	0	129
Duluth, Winnipeg & Pacific Railway	15	1	5	0	21
Elgin, Joliet & Eastern Railway Co.	16	3	54	0	73
Florida East Coast Railway Co.	54	5	54	0	113
Gateway Western Railway	5	0	151	0	156
Grand Trunk Western Railroad Inc.	32	12	402	0	446
Houston Belt & Terminal Railway Co.	5	0	38	0	43
Illinois Central Railroad Co.	221	21	1,399	0	1,641
Indiana Harbor Belt Railroad Co.	19	1	23	0	43
Kansas City Southern Railway Co.	90	4	400	0	494
Long Island Rail Road	3	5	74	0	82
Metro North Commuter Railroad Co.	42	13	5	0	60
Montana Rail Link	149	4	531	0	684
New Jersey Transit Rail Operations	36	3	57	0	96
Norfolk Southern Corp.	1,857	69	9,342	1	11,269
Northeast Illinois Regional Comuter Rail	5	0	5	0	10
Northern Indiana Commuter Transportation	8	7	10	0	25
Paducah & Louisville Railway Co.	44	3	138	0	185
Port Authority Trans Hudson	2	0	0	0	2
Port Terminal Railroad Assoc.	36	13	49	0	98
Soo Line Railroad Co.	260	18	2,502	0	2,780
Southeastern Pennsylvania Transportation	1	1	51	0	53
Southern Pacific Transportation Co.	2,011	96	2,454	0	4,561
Southern Pacific, Chicago-St. Louis Corp.	5	1	72	0	78
Springfield Terminal Railway Co.	108	9	166	0	283
St. Louis Southwestern Railway Co.	196	5	569	0	770
Terminal Railroad Association Of St. Louis	4	0	8	0	12
Union Pacific Railroad Co.	1,834	88	10,264	1	12,187
Union Railroad Company (Pittsburgh)	19	0	20	0	39
Wheeling & Lake Erie Railway Co.	77	2	363	0	442
Wisconsin Central Ltd. (also Railway)	190	3	969	0	1,162
All Unknown Railroads	6,674	179	20,689	1	27,543
FINAL TOTALS	24,679	1,034	79,040	6	104,759

APPENDIX A

REPORTING

REQUIREMENTS

AND

DEFINITIONS

ACCIDENT/INCIDENT REPORTABILITY REQUIREMENTS

The rules governing monthly reporting of railroad accidents/incidents in effect in 1992 define a reportable accident/incident as an event arising from the operation of a railroad that results in one or more stated circumstances.

(a) An impact occurs between railroad on-track equipment and an automobile, bus, truck, motorcycle, bicycle, farm vehicle, pedestrian or other highway user at a highway-rail crossings.

(b) Any collision, derailment, fire, explosion, act of GOD or other event involving the operation of railroad on-track equipment (standing or moving) which results in more than $6,300 in damages to railroad on-track equipment, signals, track and/or track structures, and roadbed.

(c) Any event arising from the operation of a railroad which results in:

(i) death of one or more persons;
(ii) injury to one or more persons, other than railroad employees, requiring medical treatment;
(iii) injury to one or more employees requiring medical treatment or resulting in restriction of work or motion for one or more days, one or more lost work days, transfer to another job, termination of employment or loss of consciousness;
(iv) any occupational illness of railroad employee diagnosed by a physician.

DEFINITIONS

Annual Average Daily Traffic. An estimate of the annual average daily highway traffic in both traffic directions.

Active Warning Devices. A warning system activated by an approaching train: gates, flashing lights, highway signal, wigwags, or bells.

Car. A railway car designed to carry freight, railroad personnel, or passengers. This includes boxcars, covered hopper cars, flatcars, refrigerator cars, gondola cars, hopper cars, tank cars, cabooses, stock cars, ventilation cars, and special cars. Also includes on-track maintenance equipment.

Class I Railroad. A railroad with an annual gross operating revenue in excess of $250 million based on 1991 dollars.

Commercial Power. A source of commercial power within 500 feet of a crossing.

Consist. On-track railroad equipment such as a train, locomotive, group of railroad cars, or a single railcar not coupled to another car or to a locomotive.

Contractor Employee. A person employed by a contractor hired by a railroad to perform normal maintenance work to railroad rolling stock, track structure, bridges, buildings, etc.

Crossing Surfaces.

1. Sectional treated timber. Prefabricated units approximately eight feet long, made of treated timber, individually installed, and removable for maintenance and replacement purpose.

2. Full wood plank. A wood surface, other than sectional treated timber, covering the entire crossing area above crossties.

3. Asphalt. A surface over the entire crossing area or the area between plants or other material which forms flange way openings with or without single planks on the outside of running rails.

4. Concrete slab. Precast concrete slabs which are installed and individually removable for maintenance and replacement.

5. Concrete pavement. A continuous concrete surface over the track area which cannot be removed except by destruction of the surface.

6. **Rubber slabs. Performed rubber sections which can be installed and removed individually for maintenance and replacement.**

7. **Metal sections. Preformed sections of steel or other metal which can be individually installed and removed for maintenance and replacement.**

8. **Other metal. A crossing area completed with covered rails or other permanent metal materials in limited sectional units.**

9. **Unconsolidated. Ballast or other unconsolidated material placed above the tops of crossties with or without planks on one or both sides of running rail.**

Daylight Train Movements. Train movements between 6 a.m. and 6 p.m.

Employee. A person engaged in railroad operations who works for a railroad company in return for financial or other compensation.

Employee Not On Duty. A railroad employee who is on railroad property for a purpose connected with his or her employment or with other railroad permission, but who is not engaged in rail operations for financial or other compensation.

Fatality. The death of a person resulting from an injury incurred during railroad operations or resulting from an occupational illness if death occurs within 365 days of initial diagnosis.

Highway-rail Crossing. A location where one or more railroad tracks intersect a public or private thoroughfare, a sidewalk, or a pathway.

Highway Signals. Train-activated highway lights (red-amber-green) that control highway traffic over the crossing.

Locomotive. A self-propelled unit of on-track equipment designed for moving other rail freight and passenger equipment on rail tracks, including self-propelled units.

Main Track. Any track other than auxiliary track that extends through railroad yards or between stations and over which trains operate by time-table and/or train orders or the use of the track is governed by a signal system.

Maximum Timetable Speed. Maximum train speed permitted over a crossing.

Nearby Intersecting Highway. A highway intersection within 75 feed of the crossing.

Night Train Movements. Train movements between 6 p.m. and 6 a.m.

Non-train Incident. An event arising from railroad operations but not from the movement of on-track equipment, which does not exceed the reporting threshold, and results in a death, a reportable injury, or a reportable occupational illness.

Nontrespassers. A person who is lawfully on any part of railroad property which is used in railroad operations or a person who is adjacent to railroad premises when injured as a the result of railroad operations.

Number Of Crossbucks. Masts with crossbucks; a mast with two or more crossbucks is counted as one. A crossbuck on an active device is not counted.

On-Track Equipment. Railroad rolling stock used to transport freight or passenger. It included locomotives, railroad cars, maintenance equipment, and one or more locomotives coupled to one or more cars.

Other Signs. Signs other than crossbucks or stop signs.

Other Stop Signs. Stop signs other than standard highway stop signs.

Passenger. A person who is on, boarding, or alighting from a railroad car for the purpose of travel, without participating in its operation.

Passive Warning Device. A warning system not automatically activated by an approaching train: signs (crossbucks or standard highway signs) or special warning devices (manually operated gates, flood lights, etc.).

Pavement Markings. Markings prescribed or generally similar to those in highway traffic manuals, in particular, stoplines and railroad crossing symbols.

Percentage Trucks. The percentage of total daily highway traffic represented by trucks.

Public Crossing. A location open to public travel where railroad tracks cross a road that is under the jurisdiction and maintenance of a public authority.

Railroad. Any surface transportation system which carries passengers, goods, materials, or property over rails.

Railroad Advance Warning. Advance warning signs on any highway approach.

Rural Crossing. A crossing classification derived from the Functional Classification Code.

Signals For Train Operation. Automatic signals or interlocks which control train operations in the vicinity of a crossing.

Smallest Crossing Angle. The smallest angle between the highway and the track.

Special Warning Devices. Non-train-activated devices other than signs including manually operated gates, train crews flagging a crossing, watchmen, and flood lights.

Speed Selection For Trains. A uniform warning time for the speed range of trains normally encountered at the crossing.

Standard Highway Stop Sign. Octagonal red sign with white lettering STOP.

Stop Signs. The standard highway stop sign or other stop signs.

Switch Trains. All trains other than thru trains, including locals, industrial runs, and switch engines.

Thru Trains. Trains whose primary responsibility is to move cars over the road; they may have a limited number of pickups and setouts along the route.

Total Train Movements. All train movements for the reporting company and all other railroads operating over the crossing.

Traffic Lanes. Number of highway traffic lanes not including shoulders or parking lanes.

Train Accident. A collision, derailment, or other event involving the operation of railroad on-track equipment resulting in damages that exceed the reporting threshold.

Train Incident. Any event involving the movement of railroad on-track equipment that results in a death, a reportable injury, or a reportable illness, but in which railroad property damage does not exceed the reporting threshold.

Trespasser. Any person whose presence on railroad property used in railroad operations, is prohibited or unlawful.

Truck Pullout Lane. A special lane designed to accommodate vehicles which are required to stop at a crossing.

Type of Development.

1. **Open space.** An area that is undeveloped, sparsely developed, very lightly populated, or agricultural.

2. **Residential. An area comprised of private residences.**

3. **Commercial. An area with retail stores, businesses, offices, and personal service offices.**

4. **Industrial. An area with manufacturing, construction, heavy products, factories, and warehouses.**

5. **Institutional. An area with schools, churches, hospitals, parks, and other community facilities.**

Urban Crossing. A crossing classification derived from Functional Classification Code.

Warning Device Category. At crossings which have more than one warning device, the warning category is determined by the following method:

Highest	**8)**	**Gates[3]**
	7)	**Flashing lights**
	6)	**Highway signals, wigwags or bells**
	5)	**Special warning devices**
	3)	**Stop signs**
	4)	**Crossbucks**
	2)	**Other signs**
Lowest	**1)**	**No signs or signals**

[3]When cantilevered flashing lights are categorized separately, they are ranked eighth and gates are ranked ninth.

APPENDIX B

REPORTING

FORMS

FORMS

Three separate forms may be required to properly report a highway-rail crossing accident/incident:

FRA F 6180-57	**Grade Crossing Accident/Incident Report**
FRA F 6180-55	**Railroad Injury and Illness Summary**
FRA F 6180-54	**Rail Equipment Accident/Incident Report**

For all reportable highway-rail crossing accidents/incidents, Form FRA F 6180-57 must be submitted by the carrier which has on-track equipment involved. If reportable casualties result, they must be individually reported on Form F 6180-55. If the accident resulted in more than $6,300 in damages to railroad on-track equipment, signals, track, track structures, or roadbed, Form FRA 6180-54 must also be submitted.

DEPARTMENT OF TRANSPORTATION
FEDERAL RAILROAD ADMINISTRATION

RAILROAD INJURY AND ILLNESS SUMMARY

Form Approved
OMB No. 2130-0500

1. NAME OF REPORTING RAILROAD	2. ALPHABETIC CODE	3. REPORT MONTH & YEAR	4. STATE ALPHABETIC CODE	5. COUNTY

NAME OF REPORTING OFFICER	OFFICIAL TITLE
ADDRESS	**TELEPHONE** *(Area Code) (Number)*

6.

I, _____, being first duly sworn, do say upon my oath that I
(Name of Affiant)
am _____, of the railroad aforesaid and as such officer of the said railroad it is my duty to have supervision
(Title of Office held by affiant)
over the record of reportable incidents arising from the operation of the said railroad, and that I have caused to be compiled from the said record and to be carefully examined the annexed report of such incidents occurring during the month named at the head of this sheet; and that the said report is true and complete to the best of my knowledge and belief.

Subscribed and sworn to before me, a notary public in and for the State and County aforesaid, this _____ day of _____, 19____.

(Use an impression seal) [L.S]

_____ *(Notary Public)*

_____ *(Signature of affiant)*

7. **MILES RUN DURING MONTH**

A. LOCOMOTIVE TRAIN MILES	B. MOTOR TRAIN MILES	C. YARD SWITCHING MILES	D. TOTAL

8.

A. EMPLOYEE MANHOURS WORKED	B. PASSENGER MILES OPERATED	C. NUMBER OF PASSENGERS TRANSPORTED

TOTAL TRAIN ACCIDENTS	TOTAL FRA FORMS 6180-55A	TOTAL FRA FORMS 6180-54	TOTAL FRA FORMS 6180-57

SECTION A—RECAPITULATION OF ALL CASUALTIES *INCLUDING* HIGHWAY GRADE CROSSING ACCIDENT/INCIDENT CASUALTIES

TRAIN ACCIDENTS		TRAIN INCIDENTS		NONTRAIN INCIDENTS		TOTAL	
Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj

CLASS OF PERSON FOR SECTIONS A AND B
1. Employees on duty
2. Employees not on duty
3. Passengers on trains
4. Other nontrespassers
5. Trespassers (all classes)
6. Contractor Employees
7. GRAND TOTAL

SECTION B—RECAPITULATION OF ALL HIGHWAY GRADE CROSSING ACCIDENT/INCIDENT CASUALTIES

TRAIN ACCIDENTS		TRAIN INCIDENTS		NONTRAIN INCIDENTS		TOTAL	
Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj

SECTION C—MEMORANDUM—SUBSEQUENT FATALITIES DEVELOPED FROM REPORTED CASUALTIES

LINE NO.	ACCIDENT/INCIDENT NUMBER	TYPE PERSON OR JOB CODE	DATE OF INJURY	DATE OF DEATH	STATE
1.					
2.					
3.					
4.					

FORM FRA F 6180-55 (8-76) REPLACES FORM FRA F 6180-55 (12-74) WHICH IS OBSOLETE.

This report is required by law (45 USC 40). Failure to report can result in the imposition of civil penalties.

DEFINITIONS

A *train accident* is any collision, derailment, fire, explosion, act of God, or any other event involving operation of railroad on-track equipment (standing or moving) which results in damages to railroad on-track equipment, signals, track, track structures, and roadbed above the dollar threshold listed in the current FRA Guide for Preparing Accident/Incident Reports.

A *train incident* is any event arising from the movement of an equipment consist, which results in a reportable death, injury or illness, but not more than the damages required for reporting train accidents.

A *nontrain incident* is any event arising from the operation of a railroad, other than a train accident or train incident, which results in a reportable death, injury or illness.

A *reportable death, injury, or illness* is any event arising from the operation of a railroad which results in:

(a) death to one or more persons;
(b) injury to one or more persons, other than railroad employees, that requires medical treatment;
(c) injury to one or more employees that requires medical treatment or results in restriction of work or motion for one or more days, one or more lost workdays, transfer to another job, termination of employment, or loss of consciousness; or
(d) any occupational illness of a railroad employee, as diagnosed by a physician.

An *equipment consist* is a train, locomotive(s), cut of cars, or any single car not coupled to another car or locomotive.

A *train* is defined as a locomotive unit or locomotive units coupled, with or without cars and with or without markers displayed. Included in this definition are those trains consisting entirely of self-propelled units designed to carry passenger and/or freight traffic.

A *locomotive* is a self-propelled unit of equipment designed for moving other equipment and includes a self-propelled unit designed to carry freight and/or passenger traffic. For rapid transit and commuter reporting, any powered unit, including a married pair, will be identified as a locomotive.

A *car* is

(a) any unit of equipment designed to be hauled by locomotives, or
(b) any unit of on-track work equipment such as a track motorcar, a highway-rail car, on-track push car, on-track crane, on-track ballast tamping machine, etc.

* U.S Government Printing Office1992- 312-673/62884

U.S. Department of Transportation
Federal Railroad Administration

RAILROAD INJURY AND ILLNESS SUMMARY
(CONTINUATION SHEET)

FORM APPROVED
OMB NO. 2130-0500

SHEET____ OF____

1. NAME OF REPORTING RAILROAD	2. ALPHABETIC CODE	3. REPORT MONTH

9.

CASUALTIES *(Cont.)*

a. ACCIDENT/ INCIDENT NUMBER	b. TYPE PERSON OR JOB CODE	c. INJURY OR ILLNESS CODE	d. OCCURRENCE CODE	e. AGE	f. NUMBER OF DAYS AWAY FROM WORK	g. NUMBER OF DAYS OF RESTRICTED ACTIVITY	h. CASES WITHOUT LOST WORK DAYS	i. STATE ALPHABETIC CODE

FORM FRA F 6180-55a (Rev. 1–88)

DEPARTMENT OF TRANSPORTATION
FEDERAL RAILROAD ADMINISTRATION

RAIL EQUIPMENT ACCIDENT/INCIDENT REPORT

FORM APPROVED
OMB NO.2130-0002

1. NAME OF REPORTING RAILROAD	1a. Alphabetic Code	1b. Railroad Accident/Incident No.
Amtrak ☐ Autotrain ☐		
2. NAME OF OTHER RAILROAD INVOLVED IN TRAIN ACCIDENT/INCIDENT	2a. Alphabetic Code	2b. Railroad Accident/Incident No.
3. NAME OF RAILROAD RESPONSIBLE FOR TRACK MAINTENANCE *(single entry)*	3a. Alphabetic Code	3b. Railroad Accident/Incident No.
4. U. S. DOT-AAR GRADE CROSSING IDENTIFICATION NUMBER	5. DATE OF ACCIDENT/INCIDENT month / day / year	6. TIME OF ACCIDENT/INCIDENT am ☐ pm ☐

7. TYPE OF ACCIDENT/INCIDENT *(enter number in code box, single entry)* — CODE

1. Derailment 2. Head on collision 3. Rear end collision 4. Side collision 5. Raking collision 6. Broken train collision 7. Rail-Hwy crossing 8. RR grade crossing 9. Obstruction 10. Explosion-Detonation 11. Fire or violent rupture 12. Other *(specify)*

HAZARDOUS MATERIALS *(number of)*

8. CARS CARRYING	9. CARS DAMAGED OR DERAILED	10. CARS WHICH RELEASED HAZ. MAT.	11. PEOPLE EVACUATED *(est.)*

LOCATION

12. DIVISION	13. NEAREST STATION	14. MILEPOST *(to nearest tenth)*	15. STATE *(two letter code)*	CODE

ENVIRONMENTAL CONDITIONS

16. TEMPERATURE *(specify if minus)*	17. VISIBILITY *(single entry)*	CODE	18. WEATHER *(single entry)*	CODE
°F	1. Dawn 2. Day 3. Dusk 4. Dark		1. Clear 2. Cloudy 3. Rain 4. Fog 5. Sleet 6. Snow	

OPERATIONAL DATA

19. METHOD *(place X in appropriate box(es))*

1 ☐ Manual block 2 ☐ Interlocking 3 ☐ Cab signal 4 ☐ Automatic block 5 ☐ Traffic control 6 ☐ Auto. train stop 7 ☐ Yard rules 8 ☐ Time table 9 ☐ Radio 10 ☐ Auto. train control 11 ☐ Verbal permission 12 ☐ Train orders 13 ☐ Other *(specify)*

20. SPEED *(recorded speed, if available)*	21. TRAIN NUMBER	22. TIME TABLE DIRECTION	CODE
Est. ☐ MPH Recorded ☐		1. North 2. South 3. East 4. West	

EQUIPMENT

23. TRAILING TONS *(gross tonnage, excluding power units)*	24. TYPE OF EQUIPMENT CONSIST *(single entry)*	CODE	25. WAS THE EQUIPMENT IDENTIFIED IN ITEM 24 UNATTENDED?	CODE
	1. Freight train 2. Passenger train 3. Mixed train 4. Work train 5. Single car 6. Cut of cars 7. Yard/switching 8. Light loco(s)		1. Yes 2. No	

26. TRACK NUMBER OR NAME	27. FRA TRACK CLASSIFICATION	28. ANNUAL TRACK DENSITY *(gross tons in millions)*	29. TYPE OF TRACK	CODE
			1. Main 2. Yard 3. Siding 4. Industry	

30. PRINCIPLE CAR/UNIT	30a. Initial and Number	30b. Position in Train	30c. Loaded *(yes or no)*
(1) First Involved *(derailed, struck, striking, etc.)*			
(2) Causing *(mechanical failures)*			

31. LOCOMOTIVE UNITS *(no. of)*	a. Head End	Mid Train b. Manual	Mid Train c. Remote	Rear End d. Manual	Rear End e. Remote
(1) Total in Train					
(2) Total Derailed					

32. CARS *(no. of)*	Loaded a. Freight	Loaded b. Pass.	Empty c. Freight	Empty d. Pass.	e. Caboose
(1) Total in Equipment Consist					
(2) Total Derailed					

PROPERTY DAMAGE *(estimated cost, including labor, to repair or replace)*

33. EQUIPMENT DAMAGE *(to be reported for this equipment consist only)*	$	34. TRACK, SIGNAL, WAY AND STRUCTURES DAMAGE *(to be reported by railroad in item 3 only)*	$

ACCIDENT/INCIDENT CAUSE CODE

35. PRIMARY CAUSE	CODE	36. CONTRIBUTING CAUSE	CODE	37. If no code available, explain cause.

CASUALTIES

38. NUMBER OF PERSONS INJURED	39. ESTIMATED TOTAL DAYS DISABILITY	40. NUMBER OF FATALITIES

CREW *(no. of)*

41. ENGINEERS	42. FIREMEN	43. CONDUCTORS	44. BRAKEMEN

HOURS ON DUTY

45. ENGINEER	46. CONDUCTOR
Hrs: Mins:	Hrs: Mins:

47. TYPED NAME AND TITLE	48. SIGNATURE	49. DATE

50. NARRATIVE DESCRIPTION – *Describe the cause, nature and circumstances of accident/incident*

FORM FRA F 6180-54 (12-74) REPLACES FORM FRA F 6180-15 (11-72) WHICH IS OBSOLETE

GPO : 1980 O - 333-811

DEPARTMENT OF TRANSPORTATION
FEDERAL RAILROAD ADMINISTRATION

RAIL-HIGHWAY GRADE CROSSING ACCIDENT/INCIDENT REPORT

FORM APPROVED
OMB NO. 04R4033

1. NAME OF REPORTING RAILROAD	1a. Alphabetic Code	1b. Railroad Accident/Incident No.
Amtrak ☐ Autotrain ☐		
2. NAME OF OTHER RAILROAD INVOLVED IN TRAIN ACCIDENT/INCIDENT	2a. Alphbetic Code	2b. Railroad Accident/Incident No.
3. NAME OF RAILROAD RESPONSIBLE FOR TRACK MAINTENANCE *(single entry)*	3a. Alphabetic Code	3b. Railroad Accident/Incident No.
4. U.S. DOT-AAR GRADE CROSSING IDENTIFICATION NUMBER	5. DATE OF ACCIDENT/INCIDENT month ☐☐ day ☐☐ year ☐☐	6. TIME OF ACCIDENT/INCIDENT am ☐ pm ☐

LOCATION

7. NEAREST RAILROAD STATION	8. COUNTY	9. STATE *(two letter code)* CODE
10. CITY *(if in a city)*	11. HIGHWAY NAME OR NUMBER *(if private crossing, so state)*	

ACCIDENT/INCIDENT SITUATION

HIGHWAY USER INVOLVED

12. TYPE CODE
1. Auto 3. Truck-Trailer 6. Motorcycle
2. Truck 4. Bus 7. Pedestrian
5. School Bus 8. Other *(specify)*

13. SPEED *(estimated mph at impact)*

14. DIRECTION *(geographical)* CODE
1. North 3. East
2. South 4. West

15. POSITION CODE
1. Stalled on crossing 2. Stopped on crossing 3. Moving over crossing

RAILROAD EQUIPMENT INVOLVED

16. EQUIPMENT CODE
1. Train *(units pulling)* 3. Train *(standing)* 6. Light loco(s) *(moving)*
2. Train *(units pushing)* 4. Car(s) *(moving)* 7. Light loco(s) *(standing)*
5. Car(s) *(standing)* 8. Other *(specify)*

17. POSITION OF CAR/UNIT IN TRAIN CODE

18. CIRCUMSTANCE CODE
1. Train struck highway user 2. Train struck by highway user

19. CODE
Was the highway user and/or rail equipment involved in the impact transporting hazardous materials? 1. Highway user 2. Rail equipment 3. Both 4. Neither

ENVIRONMENT

20. TEMPERATURE *(specify, if minus)* °F	21. VISIBILITY *(single entry)* CODE 1. Dawn 3. Dusk 2. Day 4. Dark	22. WEATHER *(single entry)* CODE 1. Clear 3. Rain 5. Sleet 2. Cloudy 4. Fog 6. Snow

TRAIN AND TRACK

23. TYPE OF TRAIN CODE 1. Freight 3. Mixed 5. Yard/Switching 2. Passenger 4. Work 6. Light Locomotive(s)	24. TRACK TYPE USED BY TRAIN INVOLVED CODE 1. Main 3. Siding 2. Yard 4. Industry	
25. TRACK NUMBER OR NAME	26. FRA TRACK CLASSIFICATION	27. NUMBER OF LOCOMOTIVE UNITS
28. NUMBER OF CARS	29. TRAIN SPEED *(recorded speed, if available)* Est ☐ MPH Recorded ☐	30. TIME TABLE DIRECTION CODE 1. North 3. East 2. South 4. West

CROSSING WARNING

31. TYPE *(place X in appropriate box(es))*

1 ☐	Gates	5 ☐	Hwy. Traffic Signals	9 ☐	Watchman
2 ☐	Cantilever FLS	6 ☐	Audible	10 ☐	Flagged by crew
3 ☐	Standard FLS	7 ☐	Crossbucks	11 ☐	Other *(specify)*
4 ☐	Wig Wags	8 ☐	Stop Signs	12 ☐	None

32. SIGNALED CROSSING WARNING CODE
Was the signaled crossing warning identified in item 31 operating?
1. Yes 2. No

33. LOCATION OF WARNING CODE 1. Both sides 2. Side of vehicle approach 3. Opposite side of vehicle approach	34. CROSSING WARNING INTERCONNECTED WITH HIGHWAY SIGNALS CODE 1. Yes 2. No 3. Unknown	35. CROSSING ILLUMINATED BY STREET LIGHTS OR SPECIAL LIGHTS CODE 1. Yes 2. No 3. Unknown

MOTORIST ACTION

36. MOTORIST PASSED STANDING HIGHWAY VEHICLE CODE 1. Yes 2. No 3. Unknown	37. MOTORIST DROVE BEHIND OR IN FRONT OF TRAIN AND STRUCK OR WAS STRUCK BY SECOND TRAIN CODE 1. Yes 2. No 3. Unknown

38. MOTORIST CODE
1. Drove around or thru the gate 2. Stopped and then proceeded 3. Did not stop 4. Other *(specify)* 5. Unknown

39. VIEW OF TRACK OBSCURED BY *(primary obstruction)* CODE
1. Permanent structure 2. Standing railroad equipment 3. Passing train 4. Topography 5. Vegetation 6. Highway vehicles 7. Other *(specify)* 8. Not obstructed

HIGHWAY VEHICLE PROPERTY DAMAGE/CASUALTIES

40. HIGHWAY VEHICLE PROPERTY DAMAGE *(est. dollar damage)*	41. DRIVER WAS CODE 1. Killed 2. Injured 3. Uninjured	42. WAS DRIVER IN THE VEHICLE? CODE 1. Yes 2. No
43. TOTAL NUMBER OF OCCUPANTS KILLED	44. TOTAL NUMBER OF OCCUPANTS INJURED	45. TOTAL NUMBER OF OCCUPANTS *(include driver)*

46. CODE
IS A RAIL EQUIPMENT ACCIDENT/INCIDENT REPORT BEING FILED? 1. Yes 2. No

47. TYPED NAME AND TITLE	48. SIGNATURE	49. DATE

FORM FRA F 6180-57 (12-74) REPLACES FORM FRA F 6180-13 (10-67) WHICH IS OBSOLETE

OMB 2130-0017

U.S. DOT — AAR CROSSING INVENTORY FORM

A. INITIATING AGENCY ☐ RAILROAD ☐ STATE

B. CROSSING NUMBER ☐☐☐☐☐☐

C. REASON FOR UPDATE: ☐ CHANGES IN EXISTING CROSSING DATA ☐ NEW CROSSING ☐ CLOSED CROSSING

D. EFFECTIVE DATE ☐☐ M ☐☐ D ☐☐ Y

Part I Location and Classification of All Crossings (Must Be Completed)

1. Railroad Operating Company
2. Railroad Division or Region
3. Railroad Subdivision or District
4. State
5. County
6. County Map. Ref. No.
7. City
8. Nearest City
9. Highway Type and No.
10. Street or Road Name
11. RR I. D. No.
12. Nearest RR Timetable Station
13. Branch or Line Name
14. Railroad Mile Post

DO NOT WRITE IN THIS SPACE: State ☐☐ County ☐☐☐ City ☐☐☐ Nearest City ☐ RR Code ☐☐☐ Timetable Station ☐☐☐☐

15. Pedestrian Crossing ☐ 1. at grade ☐ 2. RR under ☐ 3. RR over

16. Private Vehicle Crossing
A. ☐ 1. Farm ☐ 2. Residential ☐ 3. Recreational ☐ 4. Industrial
B. ☐ 5. at grade ☐ 6. RR under ☐ 7. RR over
C. ☐ 8. signs-specify ☐ 9. signals-specify ☐ 0. none

17. Public Vehicle Crossing ☐ 1. at grade ☐ 2. RR under ☐ 3. RR over

COMPLETE REMAINDER OF FORM ONLY FOR PUBLIC VEHICLE CROSSINGS AT GRADE

Part II Detailed Information for Public Vehicular at Grade Crossing

1A. Typical Number of Daily Train Movements

Daylight (6 AM to 6 PM)		Night (6 PM to 6 AM)	
thru trains	switching	thru trains	switching
☐☐ 1	☐☐ 2	☐☐ 3	☐☐ 4

1B. Check if Less Than One Movement Per Day ☐ 5

2. Speed of Train at Crossing
A. Maximum time table speed ☐☐ 1
B. Typical Speed Range Over Crossing from ☐☐ 2 to ☐☐ 3 mph

3. Type and Number of Tracks
main ☐ 1 other ☐☐ 2 If other specify ☐☐☐☐☐☐☐☐☐☐ 3

4. Does Another RR Operate a Separate Track at Crossing?
☐ Yes 1 ☐ No Specify: RR ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐ 2

5. Does Another RR Operate Over Your Track at Crossing?
☐ Yes 1 ☐ No Specify: RR ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐ 2

6. Type of Warning Device at Crossing

A. Signs

Crossbucks		Standard Highway Stop Sign	Other Stop Signs	Other Signs: Specify
reflectorized	non-reflectorized			
☐☐ 01 Number	☐☐ 02 Number	☐☐ 03 Number	☐☐ 04 Number	☐☐ 05 Number ☐☐☐☐☐☐☐☐☐☐ 06; ☐☐ 07 Number ☐☐☐☐☐☐☐☐☐☐ 08

B. Train Activated Devices

Gates		Cantilevered Flashing Lights		Mast Mounted Flashing Lights	Other Flashing Lights	Highway Traffic Signals	Wigwags	Bells
red & white reflectorized	other colored	over traffic lane	not over traffic lane		Specify			
☐☐ 09 Number	☐☐ 10 Number	☐☐ 11 Number	☐☐ 12 Number	☐☐ 13 Number	☐☐ 14 Number ☐☐☐☐☐☐☐☐☐☐ 15	☐☐ 16 Number	☐☐ 17 Number	☐☐ 18 Number

C. Specify Special Warning Device not Train Activated ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐ 19

D. No Signs or Signals ☐ 20

7. Is Commercial Power Available? ☐ Yes ☐ No

8. Does Crossing Signal Provide Speed Selection for Trains? ☐ Yes ☐ No ☐ N/A

9. Method of Signalling for Train Operation: Is Track Equipped with Signals? ☐ Yes ☐ No

Part III Physical Data

1. Type of Development ☐ 1. Open Sp. ☐ 2. Res ☐ 3. Comm. ☐ 4. Ind. ☐ 5. Inst.
2. Smallest Crossing Angle ☐ 0°-29° ☐ 30°-59° ☐ 60°-90°
3. Number of Traffic Lanes Crossing Railroad ☐ Number
4. Are Truck Pullout Lanes Present? ☐ Yes ☐ No
5. Is Highway Paved ☐ Yes ☐ No
6. Pavement Markings ☐ Stoplines ☐ RR Xing Sym. ☐ None
7. Are RR Advance Warning Signs Present? ☐ Yes ☐ No
8. Crossing Surface ☐ 1. Sec. Timber ☐ 2 Full Wd. Plank ☐ 3. Asphalt ☐ 4. Concrete Slab ☐ 5. Concrete Pave. ☐ 6. Rubber ☐ 7. Metal Sections ☐ 8 Other Metal ☐ 9. Unconsolidated ☐ 0. Other Specify
9. Does Track Run Down A Street? ☐ Yes ☐ No
10. Nearby Intersecting Highway? ☐ Yes ☐ No

Part IV Highway Department Information

1. Highway System ☐☐
2. Is Crossing on State Highway System? ☐ Yes ☐ No.
3. Functional Classification of Road over Crossing ☐☐
4. Estimate AADT ☐☐☐☐☐☐
5. Estimate Percent Trucks ☐☐

I. D. Number